

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:35:28 ; Search time 23.6027 Seconds
(without alignments)
1073.767 Million cell updates/sec

Title: US-09-831-907A-33
Perfect score: 641
Sequence: 1 MDRVPEFCCLFLGLNPLLS.....TRKHQHGGAPECFMKYCI 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues
Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Database :

SPREMBL_21: *
1: sp_Archea: *
2: sp_Bacteria: *
3: sp_Fungi: *
4: sp_human: *
5: sp_invertebrate: *
6: sp_mammal: *
7: sp_mhnc: *
8: sp_organelle: *
9: sp_phage: *
10: sp_plant: *
11: sp_rodent: *
12: sp_virus: *
13: sp_vertebrate: *
14: sp_unclassified: *
15: sp_virus: *
16: sp_bacteriap: *
17: sp_archaeap: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	266.5	41.6	121	6	Q95J46 sus scrofa
2	239	37.3	139	4	Q8TA06 Q8taud homo sapien
3	175.5	27.4	85	6	Q95K72 Q95k72 sus scrofa
4	89	13.9	2249	5	Q9VCU9 Q9vcu9 sus scrofa
5	84.5	13.2	168	16	Q93J49 Q93j49 streptomyc
6	81.5	12.7	229	4	Q9HBP7 Q9hbp7 homo sapien
7	81.5	12.7	523	4	Q9BUV9 Q9buuv9 homo sapien
8	81	12.6	4899	5	Q9VR91 Q9vr91 drosophila
9	80.5	12.6	390	13	Q9PRE3 Q9pre3 ambystoma m
10	80.5	12.6	404	13	Q9PRE5 Q9pre5 ambystoma m
11	80.5	12.6	409	13	Q9PRE3 Q9pre3 cynops pyrr
12	80.5	12.6	419	13	Q9PRE4 Q9pre4 ambystoma m
13	80.5	12.6	423	13	Q9PRE4 Q9pre4 cynops pyrr
14	80.5	12.6	433	13	Q9PRE6 Q9pre6 ambystoma m
15	80.5	12.6	438	13	Q9PRE6 Q9pre6 cynops pyrr
16	80.5	12.6	452	13	Q9PRE6 Q9pre6 cynops pyrr

17	79	12.3	941	3	Q8TGA0 Q8tga0 pichia past
18	76.5	11.9	367	4	Q96D73 Q96d73 homo sapien
19	76.5	11.9	391	4	Q9UFV4 Q9ufv4 homo sapien
20	76.5	11.9	394	4	Q8WV1 Q8wv1 homo sapien
21	75.5	11.8	111	17	Q9Y9V0 Q9y9v0 aeropyrum p
22	75.5	11.8	317	10	Q22050 Q22050 actinidia d
23	75.5	11.8	663	16	Q8XJ3 Q8xj3 escherichia
24	75.5	11.8	1054	11	Q8R5K3 Q8r5k3 mus musculu
25	75.5	11.8	1141	11	Q8R5K4 Q8r5k4 mus musculu
26	75	11.7	155	11	Q99M44 Q99m44 mus musculu
27	75	11.7	966	5	Q24170 Q24170 drosophila
28	75	11.7	966	5	Q24171 Q24171 drosophila
29	74.5	11.6	404	4	Q8WV28 Q8wv28 homo sapien
30	74	11.5	236	16	Q9KYU4 Q9kyu4 streptomyc
31	74	11.5	240	2	Q9F0V5 Q9f0v5 azotarcus sp
32	74	11.5	342	10	Q9X1Z6 Q9x1z6 oryza sativ
33	73.5	11.5	233	13	P87389 P87389 triturus al
34	73.5	11.5	679	16	Q8X455 Q8x455 escherichia
35	73.5	11.5	680	11	Q8R370 Q8r370 mus musculu
36	73.5	11.5	6048	2	Q93H87 Q93h87 streptomyc
37	73.5	11.5	7463	16	Q9Z4X6 Q9z4x6 streptomyc
38	73	11.4	201	5	Q9V422 Q9v422 drosophila
39	73	11.4	342	5	Q9UL18 Q9ul18 drosophila
40	73	11.4	346	5	Q9W5B0 Q9w5b0 drosophila
41	73	11.4	392	16	Q97M90 Q97m90 clostridium
42	73	11.4	429	4	Q9UF04 Q9uf04 homo sapien
43	73	11.4	596	4	Q9H1R3 Q9h1r3 homo sapien
44	73	11.4	632	11	Q62719 Q62719 ratius norv
45	73	11.4	761	4	Q9Y2L4 Q9y2l4 homo sapien

ALIGNMENTS

RESULT 1

Q95J46 ID Q95J46 PRELIMINARY; PRT; 121 AA.
AC Q95J46;
DT 01-DEC-2001 (TREMBLrel. 19, created)
DT 01-DEC-2001 (TREMBLrel. 19, last sequence update)
DT 01-MAR-2002 (TREMBLrel. 20, last annotation update)
DE Urotensin II transcript variant 1.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9623;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD;
RA Sugo T., Mori M.;
RA Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD;
RA Mori M., Sugo T., Abe M., Shimomura Y., Kurihara M., Kitada C.,
RA Kikuchi K., Shintani Y., Kurokawa T., Onda H., Nishimura O.,
RA Fujino M.;
RT "Urotensin II is the endogenous ligand of a G-protein-coupled orphan
RT receptor, SENR (GPR14).";
RL Biochem. Biophys. Res. Commun. 265:123-129(1999).
DR EMBL: AB063245; BAB60888.1; -;
DR EMBL: AB063244; BAB60887.1; -;
DR InterPro: IPR001483; Urotensin-II.
DR Pfam: PF02083; Urotensin-II; 1.
DR PROSITE: PS00984; UROTENSIN-II; UNKNOWN.1.
SQ SEQUENCE 121 AA: 13580 MW: 656EAB01AF69101B CACG64;

Query Match 41.6%; Score 266.5; DB 6; Length 121;
Best Local Similarity 49.1%; Pred. No. 1.8e-18;
Matches 57; Conservative 14; Mismatches 44; Indels 1;

OY 8 CLIFGLINPLSLPVTGERTIOLPYLEEDALRALEELERALLQTLRQTMGTGEAGS 67

Query Match	37.3%	Score 239	DB 4	Length 139
Best Local	49.1%	Pred. NO. 1e-15		
Matches	55	Conservative	17	Mismatches 38; Indels 2; Gaps 1

RESULT 3	
095K72	
ID 095K72	PRELIMINARY: PRT: 85 AA.

RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD;
RX MEDLINE=20017983; PubMed=10548501;
RA Mori M., Suigo T., Abe M., Shlmonura Y., Kurihara M., Kitada C.,
RA Kikuchi K., Shintani Y., Kurokawa T., Onda H., Nishimura O.,
RA Fujino M.;
RT "urotensin II is the endogenous ligand of a G-protein-coupled orphan
RT receptor, S1R (GPR14).";
RL Blochem. Biophys. Res. Commun. 265:123-129(1999).

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SQ SEQUENCE 85 AA; 9644 MW; F519CFEDFCBAA863 CRC64;

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RN
RP
111
SEQUENCE FROM N. A.
RC
STRAIN-BERKELEY;
RX
MEDLINE=20196006; Pubmed=10731132;

DR InterPro; IPR001410; DEAD.

66 ESP-----GE---

QY 42 RALEELERMAALLQTLMCTEAGESEPGASTETPTPGSRKKAFAGONSMTVLSRL 101
 DB 105 RAQOEAEER-----ALQOARKGEQGGPPPKASPSTAGETPSGVRLEPVEPVDDLLRLRV 159
 QY 102 APTKQK-----HKOHGAPECF 118
 DB 160 KPERQOQVPRKDYGSVSLF 180

RESULT 8
 Q9VR91 PRELIMINARY: PRT: 4899 AA.

AC Q9VR91
 DT 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE HERC2 protein.
 GN HERC2 OR CG11734.
 OS Drosophila melanogaster (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
 OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 NCBI_TaxId=7227;
 RX MEDLINE=20196006; PubMed=10731132.
 RA Adams M.D., Celisner S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galie R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Wortman J.R., Vandeil M.D., Zhang Q., Chen L.X.,
 RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
 RA Abell J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
 RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.Y., Benos P.V., Bereman B.P., Bhandari D., Bolshakov S.,
 RA Bortova D., Botchan M.R., Bouck J., Brokstein P., Brotlier P.,
 RA Burlis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson K.C., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
 RA Foster C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
 RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwan C.,
 RA Jajaeli M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Meltel B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Paclab J.M.,
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Port V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Klamos I., Simpson R.D.C., Schaefer F., Smith T.,
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 RA Svitek R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissensbach J.,
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 RA Zheng X.H., Zhong F., Zhou W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA G1bbs R.A., Myers E.W., Rubin G.M., Venter J.C.,
 RT "The genome sequence of Drosophila melanogaster."
 RL Science 287:2185-2195(2000).
 DR EMBL: AE003571; AAF50913.2;
 DR FLYBase: FBgn0031107; HERC2.
 DR InterPro: IPR000569; HECT_domain.
 DR InterPro: IPR000408; Reg_chromatid.
 DR InterPro: IPR000449; UBA_domain.
 DR Pfam: PF00632; HECT_1.
 DR Pfam: PF00415; RCC1; 15.

DR PRINTS: PR00633; RCNDNSATON.
 DR SMART: SM00119; HECTC: 1.
 DR PROSITE: PS50237; HECT: 1.
 DR PROSITE: PS00626; RCC1_2; UNKNOWN_4.
 DR PROSITE: PS00112; RCC1_3; 18.
 SO SEQUENCE 4899 AA; 528653 MW; 2D10F544BDF71FAC CRC64;

Query Match
 Best Local Similarity 28.5%; Score 81; DB 5; Length 4899;
 Matches 37; Conservative 14; Mismatches 43; Indels 36; Gaps 5;

QY 12 IGLLN-----PLSLPVTGTGERTLOPLVEEDA-----LRAL----- 44
 DB 2072 LGWLNIGFTRAIISGDCPRCLLESTPGWLSHTLSLEQPAENAGVYRQDLHCLRLQLIL 2131

QY 45 -----ELEERMAALLQTLMCTEAGESEPGASTETPTPGSRKKAFAGONSMTVLS 98
 DB 2132 AOWGAEEPRMPALVHQLFATLGRILHCPGDA---SLPTAGKARVLLTASHSGSVAE 2188

QY 99 RLLARTKQH 108
 DB 2189 ELVALLRLRH 2198

RESULT 9
 Q9PRE3 PRELIMINARY: PRT: 390 AA.

AC Q9PRE3
 DT 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-MAR-2002 (TREMBlrel. 13, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Paired-box transcription factor (fragment).
 GN PAX6.
 OS Ambystoma mexicanum (Axolotl).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Caudata; Salamandridae; Ambystomatidae;
 OC Ambystoma.
 NCBI_TaxId=8296;
 RX MEDLINE=159415; AAD50904.1; -.
 RA Glaser T.M.,
 RA Glaser T.M., Walton D.S., Cai J., Epstein J.A., Jeepeal L., Maas R.L.,
 RT "PAX6 gene mutations in aniridia.";
 RL (In) Wiggs J. (eds.);
 RL Molecular genetics of ocular disease, pp.52-82, Wiley Press,
 RL New York (1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Glaser T.M.;
 RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.
 CC - SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC - SIMILARITY: CONTAINS A PAIRED BOX DOMAIN.
 DR EMBL: AF159415; AAD50904.1; -.
 DR HSBP: P26367; 6PAX.
 DR InterPro: IPR001356; Homeobox.
 DR InterPro: IPR001523; Paired_box.
 DR Pfam: PF00292; PAX; 1.
 DR PRINTS: PR00027; PAIREDBOX.
 DR ProDom: PD000010; Homeobox; 1.
 DR SMART: SM00389; HOX; 1.
 DR SMART: SM00351; PAX; 1.
 DR PROSITE: PS00027; HOMEBOX_1; 1.
 DR PROSITE: PS50071; HOMEBOX_2; 1.
 DR PROSITE: PS00034; PAIRED_BOX; 1.
 KW DNA-binding; Developmental protein; Homeobox; Nuclear protein;
 KW Paired box; Transcription regulation.
 FT NON_TER 1
 SO SEQUENCE 390 AA; 43548 MW; 37AF39F5CA34158B CRC64;

Query Match
 Best Local Similarity 12.6%; Score 80.5; DB 13; Length 390;
 Matches 26; Conservative 17; Mismatches 46; Indels 17; Gaps 2;


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QY 20 SLPTVDTGERTIQLPVLEEDALRALELEERMAILLQTLRQTMGTAGESSPGAGPSTETPT 79
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 114 NIPSVSSINRVLRLNLASRKQMGADGMVDRKRLMLNGOTGTGTRPGWPGTSVPG--OPT 171
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 80 PRGSMKRAFAQONSNTV-----LSRLIARTKROHKQ 110
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 172 PDGCGQQQEGGEGNTNNTSSNGEDSDQAOMRLQKRLQRRNTSFTQ 217
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 10
QPRE5 PRELIMINARY: PRT: 404 AA.
AC QPRE5;
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
DE Paired-box transcription factor +- isoform (Fragment).
GN PAX6.
OS Ambystoma mexicanum (Axolotl).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Caudata; Salamandroidae; Ambystomatidae;
OC Ambystoma.
OX NCBI_TaxID=8296;
RN [1]
RP SEQUENCE FROM N.A.
RA Glaser T.M., Walton D.S., Cai J., Epstein J.A., Jeepeal L., Maas R.L.;
RT "PAX6 gene mutations in aniridia.";
RL (in) Wiggs J. (eds.);
RL Molecular genetics of ocular disease, pp.52-82, Wiley Press,
RL New York (1995).
RN [2]
RP SEQUENCE FROM N.A.
RA Glaser T.M.;
RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
DR EMBL: AF169413; AAD50902.1; -
DR HSSP: P26367; 6PAX.
DR InterPro: IPR001356; Homeobox.
DR InterPro: IPR001523; Paired_box.
DR Pfam: PF00046; homeobox; 1.
DR Pfam: PF00292; PAX; 1.
DR PRINTS: PR00027; PAIREDBOX.
DR PRODOM: PD000010; Homeobox; 1.
DR SMART: SM00389; HOX; 1.
DR SMART: SM00351; PAX; 1.
DR PROSITE: PS00027; HOMEBOX_1; 1.
DR PROSITE: PS50071; HOMEBOX_2; 1.
DR PROSITE: PS00034; PAIRED_BOX; 1.
KW DNA-binding; Homeobox; Nuclear protein.
FT NON_TER 1
SQ SEQUENCE 404 AA; 45073 MW; 0E16D591EC314482 CRC64;

Query Match 12.6%; Score 80.5; DB 13; Length 404;
Best Local Similarity 24.5%; Pred. No. 9;
Matches 26; Conservative 17; Mismatches 46; Indels 17; Gaps 2;

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OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Caudata; Salamandroidae; Ambystomatidae; Cynops.
OX NCBI_TaxID=8330;
RN [1]
RP SEQUENCE FROM N.A.
RA Mizuno M., Takahashi T.C., Takeshima K.;
RT "pax-6 gene expression in newt eye development.";
RL Dev. Genes Evol. 207:167-176(1997).
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
CC -1- SIMILARITY: CONTAINS A PAIRED BOX DOMAIN.
DR EMBL: D88741; BAA24023.1; -
DR HSSP: P26367; 6PAX.
DR InterPro: IPR001356; Homeobox.
DR InterPro: IPR001523; Paired_box.
DR Pfam: PF00046; homeobox; 1.
DR Pfam: PF00292; PAX; 1.
DR PRINTS: PR00027; PAIREDBOX.
DR PRODOM: PD000010; Homeobox; 1.
DR SMART: SM00389; HOX; 1.
DR SMART: SM00351; PAX; 1.
DR PROSITE: PS00027; HOMEBOX_1; 1.
DR PROSITE: PS50071; HOMEBOX_2; 1.
DR PROSITE: PS00034; PAIRED_BOX; 1.
KW DNA-binding; Developmental protein; Homeobox; Nuclear protein;
KW Paired box; Transcription regulation.
SQ SEQUENCE 409 AA; 45855 MW; 5B1A5FD50F710510 CRC64;

Query Match 12.6%; Score 80.5; DB 13; Length 409;
Best Local Similarity 24.5%; Pred. No. 9.1;
Matches 26; Conservative 17; Mismatches 46; Indels 17; Gaps 2;

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QY 20 SLPTVDTGERTIQLPVLEEDALRALELEERMAILLQTLRQTMGTAGESSPGAGPSTETPT 79
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 133 NIPSVSSINRVLRLNLASRKQMGADGMVDRKRLMLNGOTGTGTRPGWPGTSVPG--QPT 190
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 80 PRGSMKRAFAQONSNTV-----LSRLIARTKROHKQ 110
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB 191 PDGCGQQQEGGEGNTNNTSSNGEDSDQAOMRLQKRLQRRNTSFTQ 236
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 12
QPRE4 PRELIMINARY: PRT: 419 AA.
AC QPRE4;
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
DE Paired-box transcription factor (Fragment).
GN PAX6.
OS Ambystoma mexicanum (Axolotl).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Caudata; Salamandroidae; Ambystomatidae;
OC Ambystoma.
OX NCBI_TaxID=8296;
RN [1]
RP SEQUENCE FROM N.A.
RA Glaser T.M., Walton D.S., Cai J., Epstein J.A., Jeepeal L., Maas R.L.;
RT "PAX6 gene mutations in aniridia.";
RL (in) Wiggs J. (eds.);
RL Molecular genetics of ocular disease, pp.52-82, Wiley Press,
RL New York (1995).
RN [2]
RP SEQUENCE FROM N.A.
RA Glaser T.M.;
RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
CC -1- SIMILARITY: CONTAINS A PAIRED BOX DOMAIN.
DR EMBL: AF169414; AAD50903.1; -
DR HSSP: P26367; 6PAX.
DR InterPro: IPR001356; Homeobox.
DR InterPro: IPR001523; Paired_box.
DR Pfam: PF00046; homeobox; 1.
DR Pfam: PF00292; PAX; 1.

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DR PRINTS; PR00027; PAIREDBOX.
 DR Prodom: PD000010; Homeobox; 1.
 DR SMART; SM00389; HOX; 1.
 DR SMART; SM00351; PAX; 1.
 DR PROSITE; PS00027; HOMEBOX_1; 1.
 DR PROSITE; PS00071; HOMEBOX_2; 1.
 DR PROSITE; PS00034; PAIRED_BOX; 1.
 DR DNA-binding; Developmental protein; Homeobox; Nuclear protein;
 KM Paired box; transcription regulation.
 FT NON-TER
 SQ SEQUENCE 419 AA; 46161 MW; B35096F3AECB56D CRC64;

Query Match 12.6%; Score 80.5; DB 13; Length 419;
 Best Local Similarity 24.5%; Pred. No. 9.3;
 Matches 26; Conservative 17; Mismatches 46; Indels 17; Gaps 2;

OY 20 SLPTVDTGERTLOLPVLEEDALRLALELRLMALLQTLRQTMTEGESGEGSPSTPTPT 79
 DB 114 NIPSVSSINRLVRLNLASEKQMGADGMYDKLRMLNGQTGTWGRPGWYPGTSVPG--QPT 171
 OY 80 PRGSMRKAFAAGONSNTV-----LSRLARTRKQHKQ 110
 DB 172 PDGCGQOEGGEGENTNNTSSNGEDSDEAQMRLQLRKRLQNRRTSFTQ 217

RESULT 13
 ID 057581 PRELIMINARY; PRT; 423 AA.
 AC 057581;
 DT 01-JUN-1998 (TREMBLrel. 06, Created)
 DT 01-JUN-1998 (TREMBLrel. 06, Last sequence update)
 DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
 DE PAX6 LS.
 OS Cynops pyrrhogaster (Japanese common newt).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Amphibia; Batrachia; Caudata; Salamandridae; Cynops.
 RX NCBI_TaxID=8330;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Mizuno M., Takabatake T., Takahashi T.C., Takeshima K.;
 RT "pax-6 gene expression in newt eye development."
 RL Dev. Genes Evol. 207:167-176(1997).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 DR EMBL; D88741; BAA24022.1; -.
 DR HSSP; P26367; 6PAX.
 DR InterPro; IPR001356; Homeobox.
 DR InterPro; IPR001523; Paired_box.
 DR Pfam; PF00046; homeobox; 1.
 DR Pfam; PF00292; PAX; 1.
 DR PRINTS; PR00027; PAIREDBOX.
 DR Prodom; PD000010; Homeobox; 1.
 DR SMART; SM00389; HOX; 1.
 DR SMART; SM00351; PAX; 1.
 DR PROSITE; PS00027; HOMEBOX_1; 1.
 DR PROSITE; PS00071; HOMEBOX_2; 1.
 KM DNA-binding; Homeobox; Nuclear protein.
 SQ SEQUENCE 423 AA; 47363 MW; F4500FDE94BB32 CRC64;

Query Match 12.6%; Score 80.5; DB 13; Length 423;
 Best Local Similarity 24.5%; Pred. No. 9.4;
 Matches 26; Conservative 17; Mismatches 46; Indels 17; Gaps 2;

OY 20 SLPTVDTGERTLOLPVLEEDALRLALELRLMALLQTLRQTMTEGESGEGSPSTPTPT 79
 DB 147 NIPSVSSINRLVRLNLASEKQMGADGMYDKLRMLNGQTGTWGRPGWYPGTSVPG--QPT 204
 OY 80 PRGSMRKAFAAGONSNTV-----LSRLARTRKQHKQ 110
 DB 205 PDGCGQOEGGEGENTNNTSSNGEDSDEAQMRLQLRKRLQNRRTSFTQ 250

RESULT 14
 O9PREG

ID O9PRE6 PRELIMINARY; PRT; 433 AA.
 AC O9PRE6;
 DT 01-MAY-2000 (TREMBLrel. 13, Created)
 DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
 DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
 DE Paired-box transcription factor ++ isoform (Fragment).
 GN PAX6.
 OS Ambystoma mexicanum (Axolotl).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Amphibia; Batrachia; Caudata; Salamandridae; Ambystomatidae;
 OC Ambystoma.
 RX NCBI_TaxID=8296;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Glaser T.M., Walton D.S., Cai J., Epstein J.A., Jeepeal L., Maas R.L.;
 RT "PAX6 gene mutations in aniridia."
 RL (In) Wiggs J. (eds.);
 RL Molecular genetics of ocular disease, pp.52-82, Wiley Press,
 RL New York (1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Glaser T.M.;
 RL Submitted (JUL-1999) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 DR EMBL; AF169412; AAD50901.1; -.
 DR HSSP; P26367; 6PAX.
 DR InterPro; IPR001356; Homeobox.
 DR InterPro; IPR001523; Paired_box.
 DR Pfam; PF00046; homeobox; 1.
 DR Pfam; PF00292; PAX; 1.
 DR PRINTS; PR00027; PAIREDBOX.
 DR Prodom; PD000010; Homeobox; 1.
 DR SMART; SM00389; HOX; 1.
 DR SMART; SM00351; PAX; 1.
 DR PROSITE; PS00027; HOMEBOX_1; 1.
 DR PROSITE; PS00071; HOMEBOX_2; 1.
 KM DNA-binding; Homeobox; Nuclear protein.
 FT NON-TER
 SQ SEQUENCE 433 AA; 47687 MW; B61ED5B1E733DB55 CRC64;

Query Match 12.6%; Score 80.5; DB 13; Length 433;
 Best Local Similarity 24.5%; Pred. No. 9.7;
 Matches 26; Conservative 17; Mismatches 46; Indels 17; Gaps 2;

OY 20 SLPTVDTGERTLOLPVLEEDALRLALELRLMALLQTLRQTMTEGESGEGSPSTPTPT 79
 DB 128 NIPSVSSINRLVRLNLASEKQMGADGMYDKLRMLNGQTGTWGRPGWYPGTSVPG--QPT 185
 OY 80 PRGSMRKAFAAGONSNTV-----LSRLARTRKQHKQ 110
 DB 186 PDGCGQOEGGEGENTNNTSSNGEDSDEAQMRLQLRKRLQNRRTSFTQ 231

RESULT 15
 ID 057584 PRELIMINARY; PRT; 438 AA.
 AC 057584;
 DT 01-JUN-1998 (TREMBLrel. 06, Created)
 DT 01-JUN-1998 (TREMBLrel. 06, Last sequence update)
 DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
 DE PAX6 SL.
 OS Cynops pyrrhogaster (Japanese common newt).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Amphibia; Batrachia; Caudata; Salamandridae; Cynops.
 RX NCBI_TaxID=8330;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Mizuno M., Takabatake T., Takahashi T.C., Takeshima K.;
 RT "pax-6 gene expression in newt eye development."
 RL Dev. Genes Evol. 207:167-176(1997).
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 CC -1- SIMILARITY: CONTAINS A PAIRED BOX DOMAIN.
 DR EMBL; D88741; BAA24025.1; -.

DR HSSP; P26367; 6PAX.
DR InterPro; IPR001356; Homeobox.
DR InterPro; IPR001523; Paired_box.
DR Pfam; PF000046; homeobox; 1.
DR Pfam; PF00292; PAX; 1.
DR PRINTS; PR00027; PAIRDBOX.
DR ProDom; PD000010; Homeobox; 1.
DR SMART; SM00389; HOX; 1.
DR SMART; SM00351; PAX; 1.
DR PROSITE; PS00027; HOMEBOX_1; 1.
DR PROSITE; PS0071; HOMEBOX_2; 1.
DR PROSITE; PS00034; PAIRED_BOX; 1.
KW DNA-binding; Developmental protein; Homeobox; Nuclear protein;
KW Paired box; Transcription regulation.
SQ SEQUENCE 438 AA; 4845 MW; B5146D9048BF511 CRC64;

Query Match 12.6%; Score 80.5; DB 13; Length 438;
Best Local Similarity 24.5%; Pred. No. 9.8;
Matches 26; Conservative 17; Mismatches 46; Indels 17; Gaps 2;

QY 20 SLFVDTGERTLQPVLEEDALRALBELLMALLQTLRQTMGTBAGSPGEAGPSTETPT 79
DB 133 NIPVSSSINRVLRLNLASEKQMGADGMYDKLRMLNGCOTGTGTRPGWYPTSVPG--QPT 190
QY 80 PRGSMKRAFAQGNSTNY-----LSRLARTRKQHKQ 110
DB 191 PDGCGQOQEGGEGENTNISTNGEDSDAQMRLQLRKLRNRRTSFTQ 236

Search completed: March 10, 2003, 17:46:37
Job time : 25.6027 secs

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PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match

Best Local Similarity 44.28; Score 279.5; DB 9; Length 124;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

QY 1 MDRVPCCLFVGLNLLSPVTDGKSLQPLVEENALRALEDELTALLOTLEQTV 60
DB 1 MYLASCCLEFGLNLLSPVTDGKSLQPLVEENALRALEDELTALLOTLEQTV 60
QY 61 GTEAGSLGADPSAETPRGRSLRK-ALTGDSNTVLSRLLAFTKQKRGTAPECF 118
DB 61 GARGOILRKADSDSTINENRGNLRKFQDPSGDDPILLSHLARLWKPYKKRET-PDCF 119
QY 119 WKCI 123
|||||

DB 120 WKYCV 124

RESULT 9

US-09-993-687-266

Sequence 266, Application US/09993687

Publication No. US20020198149A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C11
CURRENT APPLICATION NUMBER: US/09/993,687
CURRENT FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
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PRIOR FILING DATE: 1998-06-04

RESULT 8
US-09-991-181-266
Sequence 266, Application US/09991181
Publication No. US20020197615A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P27301C53
CURRENT APPLICATION NUMBER: US/09/991,181
CURRENT FILING DATE: 2001-11-16
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 44.2%; Score 279.5; DB 9; Length 124;
Best local Similarity 49.6%; Pred. No. 1.4e-22;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

QY 1 MDVPPCCLFVGLNPLSPYTDGEMSLQVLEENALRLLEFERTALLQITRQVY 60
DB 1 MKVLASCCLEFGLNPLSLPLDSREISFQLSAPHEARLTPPEELERASLQILPEML 60
QY 61 GTEAEGSLQADPSAETPTPGSLRK--ALTGDSNTVLSRLIAPRKORHOGTAPECF 118
DB 61 GAERGILRKADSSNIFNPRGNLRKRFODESSGDDPAILLSHLARIWKPKKMET--PDCE 119
QY 119 WKYCI 123
DB 120 WKYCV 124

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PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 44.2% Score 279.5; DB 9; Length 124;
Best Local Similarity 49.6% Pred. No. 1.4e-22;

Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

QY 1 MDRVPPCCLEFVGLNPLISFVDTGENSELQVYLEENALRALALEELERFALLQTLQQT 60
DB 1 MYKLASCCLLEFGLNPLISLPLDSREISFQLSAPHEDARLTPEDLERASLQILPEML 60
QY 61 GTEAESLQADAPSAETPPRSGLK--ALTGDSNTVLSRLIARTRKGRKHGTAPBCE 118
DB 61 GAERGDILKADSTNIFNPRGNLRKFODFSGODPNILSLHLRLIMKPKKRET-PDCE 119
QY 119 WKYCI 123
DB 120 WKYCV 124

RESULT 7
US-09-990-436-266
Sequence 266, Application US/09990436
Publication No. US20020198148A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Geider, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC14
CURRENT APPLICATION NUMBER: US/09/990,436
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04


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RESULT 6
US-09-989-730-266
: Sequence 266, Application US/09989730
: Publication No. US20020197674A1
: GENERAL INFORMATION:
: APPLICANT: Ashkenazi, Avi J.
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Fong, Sherman
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gertlisen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, J. Christopher
: APPLICANT: Gurney, Austin L.
: APPLICANT: Kijavlin, Ivar J.
: APPLICANT: Napier, Mary A.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: P27301PC69
: CURRENT APPLICATION NUMBER: US/09/989,730
: PRIOR FILING DATE: 2001-11-20
: PRIOR APPLICATION NUMBER: 60/049787
: PRIOR FILING DATE: 1997-06-16
: PRIOR APPLICATION NUMBER: 60/062250
: PRIOR FILING DATE: 1997-10-17
: PRIOR APPLICATION NUMBER: 60/065186
: PRIOR FILING DATE: 1997-11-12
: PRIOR APPLICATION NUMBER: 60/065311
: PRIOR FILING DATE: 1997-11-13
: PRIOR APPLICATION NUMBER: 60/066770
: PRIOR FILING DATE: 1997-11-24
: PRIOR APPLICATION NUMBER: 60/075945
: PRIOR FILING DATE: 1998-02-25
: PRIOR APPLICATION NUMBER: 60/078910
: PRIOR FILING DATE: 1998-03-20
: PRIOR APPLICATION NUMBER: 60/083322
: PRIOR FILING DATE: 1998-04-28
: PRIOR APPLICATION NUMBER: 60/084600
: PRIOR FILING DATE: 1998-05-07
: PRIOR APPLICATION NUMBER: 60/087106
: PRIOR FILING DATE: 1998-05-28
: PRIOR APPLICATION NUMBER: 60/087607
: PRIOR FILING DATE: 1998-06-02
: PRIOR APPLICATION NUMBER: 60/087609
: PRIOR FILING DATE: 1998-06-02
: PRIOR APPLICATION NUMBER: 60/087759
: PRIOR FILING DATE: 1998-06-02
: PRIOR APPLICATION NUMBER: 60/088021
: PRIOR FILING DATE: 1998-06-04
: PRIOR APPLICATION NUMBER: 60/088025
: PRIOR FILING DATE: 1998-06-04
: PRIOR APPLICATION NUMBER: 60/088026
: PRIOR FILING DATE: 1998-06-04
: PRIOR APPLICATION NUMBER: 60/088028
: PRIOR FILING DATE: 1998-06-04
: PRIOR APPLICATION NUMBER: 60/088029
: PRIOR FILING DATE: 1998-06-04
: PRIOR APPLICATION NUMBER: 60/088030
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: PRIOR APPLICATION NUMBER: 60/088033
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: PRIOR APPLICATION NUMBER: 60/088326
: PRIOR FILING DATE: 1998-06-04
: PRIOR APPLICATION NUMBER: 60/088167
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: 60/088202
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: 60/088212
: PRIOR FILING DATE: 1998-06-05
: PRIOR APPLICATION NUMBER: 60/088217
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: PRIOR APPLICATION NUMBER: 60/088655
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: PRIOR FILING DATE: 1998-06-10
: PRIOR APPLICATION NUMBER: 60/088738
: PRIOR FILING DATE: 1998-06-10
: PRIOR APPLICATION NUMBER: 60/088742
: PRIOR FILING DATE: 1998-06-10
: PRIOR APPLICATION NUMBER: 60/088810
: PRIOR FILING DATE: 1998-06-10
: PRIOR APPLICATION NUMBER: 60/088824
: PRIOR FILING DATE: 1998-06-10
: PRIOR APPLICATION NUMBER: 60/088826
: PRIOR FILING DATE: 1998-06-10
: PRIOR APPLICATION NUMBER: 60/088858
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: PRIOR APPLICATION NUMBER: 60/088861
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: PRIOR FILING DATE: 1998-06-11
: PRIOR APPLICATION NUMBER: 60/089105
: PRIOR FILING DATE: 1998-06-12
: PRIOR APPLICATION NUMBER: 60/089440
: PRIOR FILING DATE: 1998-06-16
: PRIOR APPLICATION NUMBER: 60/089512
: PRIOR FILING DATE: 1998-06-16
: PRIOR APPLICATION NUMBER: 60/089538
: PRIOR FILING DATE: 1998-06-17
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: PRIOR FILING DATE: 1998-06-17
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: PRIOR FILING DATE: 1998-06-18
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: PRIOR FILING DATE: 1998-06-19
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: PRIOR APPLICATION NUMBER: 60/090349
: PRIOR FILING DATE: 1998-06-23
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PRIOR FILING DATE: 1998-06-22
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PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355

PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 44.2% Score 279.5; DB 9; Length 124;
Best Local Similarity 49.6%; Pred. No. 1.4e-22;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

Qy 1 MDWVECCLLFVGLNPLSPVDTGEMSLQPLVEENALALELEERTALLQTLRQTV 60
| : : | | | | | | | | | | : : | | | | | : : | | | | | : :
Db 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFOLSAPHEBARLTPPELEBASLLQILPEML 60
Qy 61 GTEAGSLQADPSAETTPYRGLRK--ALTGDSNTVYLSRLLARTRKQKQGTAPCE 118
| : : | | | | | | | | | | : | | | | | | | | | : | | | | | :
Db 61 GAERGDILRKADSSNTINIFRGNLKRKFQDFSGDDPNILLSHLARIMWKYKKRET-PDCF 119
Qy 119 WKYCI 123
| | | | |
Db 120 WKYCV 124

;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090435
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090472
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090535
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090540
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090542
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090557
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090676
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090678
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090690
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090694
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090695
;; PRIOR FILING DATE: 1998-06-25
;; PRIOR APPLICATION NUMBER: 60/090696
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;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091544
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091519
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091626
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 44.2%; Score 279.5; DB 9; Length 124;
Best Local Similarity 49.6%; Pred. No. 1,4e-22;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

QY 1 MDKVPCCLLFVGLNPLSPVPTDGTGEMSLQPVLEENALRLAELEERFALLQOTRQV 60
DB 1 MYTLASCCLLFTGFLNPLSLPLDLSREISFQISAPHEDRRLTPPEELERASLQIILPEML 60
QY 61 GREAEESLGADPSAETPTPGSLRK -ALTGDSNTVLSRLIARTRKQKHGTAPECF 118
DB 61 GAERGDLIRKADSTNIFNPRGRLRKRFQDFSSGDDPNILLSHLARIMKPKKNET-PDCE 119
QY 119 WKICI 123
DB 120 WKYCV 124

RESULT 5

US-09-990-444-266
;; Sequence 266, Application US/09990444
;; Publication No. US20020193300A1
;; GENERAL INFORMATION:
;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kijavlin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann.
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PIC19
;; CURRENT APPLICATION NUMBER: US/09/990,444
;; PRIOR APPLICATION NUMBER: 2001-11-14
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/049787
;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066770
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/075945
;; PRIOR FILING DATE: 1998-02-25
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/083322
;; PRIOR FILING DATE: 1998-04-28
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/087106
;; PRIOR FILING DATE: 1998-05-28
;; PRIOR APPLICATION NUMBER: 60/087607
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087609
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087759
;; PRIOR FILING DATE: 1998-06-02
;; PRIOR APPLICATION NUMBER: 60/087827
;; PRIOR FILING DATE: 1998-06-03
;; PRIOR APPLICATION NUMBER: 60/088021
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088025
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088026
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088028
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;; PRIOR APPLICATION NUMBER: 60/088029
;; PRIOR FILING DATE: 1998-06-04
;; PRIOR APPLICATION NUMBER: 60/088030
;; PRIOR FILING DATE: 1998-06-04

Sequence 266, Application US/0989735
Publication No. US20020193299A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kjaev, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2/301C61
CURRENT APPLICATION NUMBER: US/09/989,735
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
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US-09-989-735-266

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; Patent NO. US20020177164A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
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21     ATTORNEY/AGENT INFORMATION:
22     NAME: Luann Csegr
23     REGISTRATION NUMBER: 31,822
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25     TELECOMMUNICATION INFORMATION:
26     TELEPHONE: (510) 814-2972
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? NAME: Esmond, Robert W.
? REGISTRATION NUMBER: 32,893
? REFERENCE/DOCKET NUMBER: 0942.4250002
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 202-371-2500
? TELEFAX: 202-371-2540
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? US-09-019-160-8

Query Match 11.5%; Score 72.5; DB 4; Length 893;
Best Local Similarity 28.9%; Pred. No. 6.8;
Matches 28; Conservative 15; Mismatches 25; Indels 29; Gaps 5.

Oy 24 TDGEGSLDPLLEENA-----LRALEEERALLQTLRQVGT----- 63
| |||| :|||| | :|| : || :
Db 563 TTGEYSTRIEELEETJANEHEIVLPILLEYRKIKÖKLIKST-YIDTLPKLVPKTGRIHASFH 627
| | :|| : | : | :||| : ||
Oy 64 ----AEGSIGADPSAE--TPPGC-SLRKALTGD 92
| | :|| : | : | :||| : ||
Db 628 QGTATGRLLSSSDPNLNLTPTKSECKEIRKAIVPD 664

RESULT 14
US-09-019-160-9
? Sequence 9, Application US/09019160
? Patent No. 6306588
? GENERAL INFORMATION:
? APPLICANT: Chatterjee, Deb K.
? APPLICANT: Solus, Joseph
? APPLICANT: Yang, Shuei
? TITLE OF INVENTION: Polymerases for Analyzing or Typing Polymorphic
? TITLE OF INVENTION: Nucleic Acid Fragments and Uses Thereof
? NUMBER OF SEQUENCES: 93
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: STERNER, KESSLER, GOLDSTEIN & FOX, P.L.L.C
? STREET: 1100 New York Ave., N.W., Suite 600
? CITY: Washington
? STATE: DC
? COUNTRY: USA
? ZIP: 20005-3934
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? OPERATING SYSTEM: IBM PC compatible
? SOFTWARE: PatentIn Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/019,160
? FILING DATE: 06-FEB-1998
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: (To be assigned)
? FILING DATE: 06-JAN-1998
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 60/037,393
? FILING DATE: 07-FEB-1997
? CLASSIFICATION:

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64 -----AEGSLGQADPSAE---TPTPRG-SLRKALTGOD 92
 443 QTGTATGRLLSSDDPMLNPLPTKSEEGEIRKAIVPD 479

Db 54 TNLFNPRGNLRKFDPSGODPNILLSHLLARIMKPYKKRET-PDCEWKCXV 103

RESULT 5
US-09-006-535-4
Sequence 4, Application US/09006535
Patent No. 5965396
GENERAL INFORMATION:
APPLICANT: Julie Yan Pan
APPLICANT: Mark Egerton
APPLICANT: David Shay Silberstein
TITLE OF INVENTION: HUMAN LYMPH NODE DERIVED GTPase
FILE REFERENCE: PHM 70295
CURRENT APPLICATION NUMBER: US/09/006.535
NUMBER OF SEQ ID NOS: 7
SOFTWARE: FastSeq for Windows, Version 3.0
SEQ ID NO: 4
LENGTH: 297
TYPE: PRT
ORGANISM: Mus musculus
US-09-006-535-4

Query Match 11.6%; Score 73.5; DB 2; Length 297;
Best Local Similarity 31.9%; Pred. No. 1.1;
Matches 22; Conservative 12; Mismatches 26; Indels 9; Gaps 2;

QY 55 TLRLQTVGTEAGSGQA-----DPSAETPPRGSLSRKALTGODSNVLSRLARTKROR 108
Db 226 TLQNHVTELFEGVYKQLRLRQDNAPETPSR--RRASLGQRARRRLARTASARR 282
QY 109 KQHGTAPEC 117
Db 283 ALKARSKC 291

RESULT 6
US-09-019-160-4
Sequence 4, Application US/09019160
Patent No. 6306588
GENERAL INFORMATION:
APPLICANT: Chatterjee, Deb K.
APPLICANT: Solus, Joseph
APPLICANT: Yang, Shuwel
TITLE OF INVENTION: Polymerases for Analyzing or Typing Polymorphic
TITLE OF INVENTION: Nucleic Acid Fragments and Uses Thereof
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C
STREET: 1100 New York Ave., N.W., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/019.160
FILING DATE: 06-FEB-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: (To be assigned)
FILING DATE: 06-JAN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,393
FILING DATE: 07-FEB-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

NAME: Esmond, Robert W.
REGISTRATION NUMBER: 32,893
REFERENCE/DOCKET NUMBER: 0942.4250002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: protein
US-09-019-160-4

Query Match 11.5%; Score 72.5; DB 4; Length 610;
Best Local Similarity 28.9%; Pred. No. 4;
Matches 28; Conservative 15; Mismatches 25; Indels 29; Gaps 5;

QY 24 TDTGEMSLQPLVEENA-----LRLAELELRTALLQTLRQVGTGTE----- 63
Db 286 TKTGGEYSRIEVLIEINHEIVPLILEYRKIOKLKT-YIDTLPLKLVNPKTGRIHASFH 344
QY 64 ----AEGSLGADPSAE---TPTPRG-SLRKALIGOD 92
Db 345 QTGTATGRLSSDPNLQNLPTKSEGEKIRKAIVPOD 381

RESULT 7
US-09-019-160-10
Sequence 10, Application US/09019160
Patent No. 6306588
GENERAL INFORMATION:
APPLICANT: Chatterjee, Deb K.
APPLICANT: Solus, Joseph
APPLICANT: Yang, Shuwel
TITLE OF INVENTION: Polymerases for Analyzing or Typing Polymorphic
TITLE OF INVENTION: Nucleic Acid Fragments and Uses Thereof
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C
STREET: 1100 New York Ave., N.W., Suite 600
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/019.160
FILING DATE: 06-FEB-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: (To be assigned)
FILING DATE: 06-JAN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/037,393
FILING DATE: 07-FEB-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Esmond, Robert W.
REGISTRATION NUMBER: 32,893
REFERENCE/DOCKET NUMBER: 0942.4250002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acids

Matches 47: Conservative 12: Mismatches 36: Indels 3: Gaps 2:

OY 28 EMSLQPLVEENALRALEELERTALLQTLRQTVGTEAGSLGQADPSAETPTPGSLRK- 86

Db 43 EISFQLSAPHEADRLTPEELERASLLQILPEMLGAEKRDILRKADSSNINIFNPNLKRKF 102

OY 87 -ALTGQDSNTVLSRLARTRKQRKHGTAPCECFWKYCI 123

Db 103 QDFSGQDPNILLSHLARIMKPKKRET-PDCEFWKVCV 139

RESULT 2:

US-09-477-071-2

Sequence 2, Application US/09477071

Patent No. 6348585

GENERAL INFORMATION:

APPLICANT: CULP, JEFFREY

APPLICANT: MCNUITY, DEAN

TITLE OF INVENTION: HUMAN UROTENSIN II

FILE REFERENCE: GP-70366-D2

CURRENT APPLICATION NUMBER: US/09/477,071

EARLIER FILING DATE: 2000-01-03

EARLIER FILING DATE: 1998-02-20

EARLIER APPLICATION NUMBER: 60/072,383

EARLIER FILING DATE: 1998-01-09

EARLIER APPLICATION NUMBER: 60/073,616

EARLIER FILING DATE: 1998-02-04

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 2

LENGTH: 139

TYPE: PRT

ORGANISM: HOMO SAPIENS

US-09-477-071-2

Query Match

Best Local Similarity 48.08; Pred. No. 5e-16;

Matches 47: Conservative 12: Mismatches 36: Indels 3: Gaps 2:

OY 28 EMSLQPLVEENALRALEELERTALLQTLRQTVGTEAGSLGQADPSAETPTPGSLRK- 86

Db 43 EISFQLSAPHEADRLTPEELERASLLQILPEMLGAEKRDILRKADSSNINIFNPNLKRKF 102

OY 87 -ALTGQDSNTVLSRLARTRKQRKHGTAPCECFWKYCI 123

Db 103 QDFSGQDPNILLSHLARIMKPKKRET-PDCEFWKVCV 139

RESULT 3

US-09-027-381-4

Sequence 4, Application US/09027381

Patent No. 6075137

GENERAL INFORMATION:

APPLICANT: CULP, JEFFREY

APPLICANT: MCNUITY, DEAN

TITLE OF INVENTION: HUMAN UROTENSIN II

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: RATNER & PRESTIA

STREET: P.O. BOX 980

CITY: VALLEY FORGE

STATE: PA

COUNTRY: USA

ZIP: 19482

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/027,381

FILING DATE: 20-FEB-1998

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/072,383

FILING DATE: 09-JAN-1998

APPLICATION NUMBER: GP-70366-1P

FILING DATE: 04-FEB-1998

ATTORNEY/AGENT INFORMATION:

NAME: PRESTIA, PAUL F

REGISTRATION NUMBER: 23,031

REFERENCE/DOCKET NUMBER: GP-70366

TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-407-0700

TELEFAX: 610-407-0701

TELEX: 846169

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 103 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-027-381-4

Query Match

Best Local Similarity 29.6%; Score 187.5; DB 3: Length 103;

Matches 47: Conservative 13: Mismatches 40: Indels 11: Gaps 3:

OY 15 LNPILSFYVDTGEMSLQPLVEENALRALEELERTALLQTLRQTVGTEAGSLGQADPS 74

Db 2 MNPILSICFYSVAP-----HEDARLTPEELERASLLQILPEMLGAEKRDILRKADSS 53

OY 75 AETPTPGSLRK--ALTGQDSNTVLSRLARTRKQRKHGTAPCECFWKYCI 123

Db 54 TNINFPNGNLKRKFQDFSGQDPNILLSHLARIMKPKKRET-PDCEFWKVCV 103

RESULT 4

US-09-477-071-4

Sequence 4, Application US/09477071

Patent No. 6348585

GENERAL INFORMATION:

APPLICANT: CULP, JEFFREY

APPLICANT: MCNUITY, DEAN

TITLE OF INVENTION: HUMAN UROTENSIN II

FILE REFERENCE: GP-70366-D2

CURRENT APPLICATION NUMBER: US/09/477,071

EARLIER FILING DATE: 2000-01-03

EARLIER FILING DATE: 1998-02-20

EARLIER APPLICATION NUMBER: 60/072,383

EARLIER FILING DATE: 1998-01-09

EARLIER APPLICATION NUMBER: 60/073,616

EARLIER FILING DATE: 1998-02-04

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 4

LENGTH: 103

TYPE: PRT

ORGANISM: HOMO SAPIENS

US-09-477-071-4

Query Match

Best Local Similarity 29.6%; Score 187.5; DB 4: Length 103;

Matches 47: Conservative 13: Mismatches 40: Indels 11: Gaps 3:

OY 15 LNPILSFYVDTGEMSLQPLVEENALRALEELERTALLQTLRQTVGTEAGSLGQADPS 74

Db 2 MNPILSICFYSVAP-----HEDARLTPEELERASLLQILPEMLGAEKRDILRKADSS 53

OY 75 AETPTPGSLRK--ALTGQDSNTVLSRLARTRKQRKHGTAPCECFWKYCI 123

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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:37:08 ; Search time 11.3027 Seconds
(Without alignments)
320.191 Million cell updates/sec

Title: US-09-831-907A-30
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Sequence: 1 MDRPFCCFLFVGLNPLLS.....TRQKQKHGAPECFWYCI 123

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Gapop 10.0 , Gapext 0.5

Searched: 26574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	198.5	31.4	139	US-09-477-071-2	Sequence 2, Appl
3	187.5	29.6	103	US-09-027-381-4	Sequence 4, Appl
4	187.5	29.6	103	US-09-477-071-4	Sequence 4, Appl
5	73.5	11.6	297	US-09-006-535-4	Sequence 4, Appl
6	72.5	11.5	610	US-09-019-160-4	Sequence 4, Appl
7	72.5	11.5	610	US-09-019-160-10	Sequence 10, Appl
8	72.5	11.5	677	US-09-019-160-3	Sequence 3, Appl
9	72.5	11.5	708	US-09-019-160-5	Sequence 5, Appl
10	72.5	11.5	893	US-09-019-160-2	Sequence 6, Appl
11	72.5	11.5	893	US-09-019-160-7	Sequence 7, Appl
12	72.5	11.5	893	US-09-019-160-8	Sequence 8, Appl
13	72.5	11.5	893	US-09-019-160-9	Sequence 9, Appl
14	72.5	11.5	893	US-07-977-434-4	Sequence 4, Appl
15	71.5	11.3	893	US-08-458-819-4	Sequence 4, Appl
16	71.5	11.3	893	US-09-105-697-10	Sequence 10, Appl
17	71.5	11.3	893	PCT-US91-07035-4	Sequence 4, Appl
18	71.5	11.3	893	US-08-971-089-6	Sequence 6, Appl
19	69	10.9	740	US-09-022-983-5	Sequence 5, Appl
20	69	10.9	2289	US-09-051-019-2	Sequence 22, Appl
21	68	10.7	342	US-08-935-855-22	Sequence 22, Appl
22	67.5	10.7	319	US-08-149-975A-2	Sequence 2, Appl
23	66.5	10.5	494	US-08-484-661A-39	Sequence 39, Appl
24	66.5	10.5	494	US-08-656-664-39	Sequence 39, Appl
25	66.5	10.5	494	PCT-US96-09641-39	Sequence 39, Appl
26	66.5	10.5	571	US-08-484-661A-37	Sequence 37, Appl

ALIGNMENTS

28	66.5	10.5	571	3	US-08-656-664-37	Sequence 37, Appl
29	66.5	10.5	571	5	PCT-US96-09641-37	Sequence 37, Appl
30	66.5	10.5	578	3	US-08-484-661A-11	Sequence 11, Appl
31	66.5	10.5	578	3	US-08-656-664-11	Sequence 11, Appl
32	66.5	10.5	578	5	PCT-US96-09641-11	Sequence 11, Appl
33	66.5	10.5	610	3	US-08-484-661A-8	Sequence 8, Appl
34	66.5	10.5	610	3	US-08-484-661A-16	Sequence 16, Appl
35	66.5	10.5	610	3	US-08-484-661A-19	Sequence 19, Appl
36	66.5	10.5	610	3	US-08-484-661A-23	Sequence 23, Appl
37	66.5	10.5	610	3	US-08-484-661A-26	Sequence 26, Appl
38	66.5	10.5	610	3	US-08-484-661A-29	Sequence 29, Appl
39	66.5	10.5	610	3	US-08-484-661A-33	Sequence 33, Appl
40	66.5	10.5	610	3	US-08-484-661A-35	Sequence 35, Appl
41	66.5	10.5	610	3	US-08-656-664-8	Sequence 8, Appl
42	66.5	10.5	610	3	US-08-656-664-16	Sequence 16, Appl
43	66.5	10.5	610	3	US-08-656-664-19	Sequence 19, Appl
44	66.5	10.5	610	3	US-08-656-664-23	Sequence 23, Appl
45	66.5	10.5	610	3	US-08-656-664-26	Sequence 26, Appl

RESULT 1

US-09-027-381-2
; Sequence 2, Application US/09027381
; Patent No. 6075137
; GENERAL INFORMATION:
; APPLICANT: CULP, JEFFREY
; APPLICANT: MCNUITY, DEAN
; APPLICANT: ELLIS, CATHERINE
; TITLE OF INVENTION: HUMAN UROTENSIN II
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/027,381
; FILING DATE: 20-FEB-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/072,383
; FILING DATE: 09-JAN-1998
; APPLICATION NUMBER: GP-70366-1P
; FILING DATE: 04-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 139 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-027-381-2
Query Match 31.4%; Score 198.5; DB 3; Length 139;
Best Local Similarity 48.0%; Pred. No. 5e-16;


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DB 1 MYKLASCCLETFGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLIQILPEML 60
QY 61 GTEAEGSLGQADPSAETPTPRGSLRK--ALTGDSNTVLSRLARTRKOROHGTAPCECF 118
DB 61 GAERGDILRKADSTNIFNPRGNLRKFQDFSGODPNILLSHLARIKPKRKRET-PDCE 119
QY 119 WKYCI 123
DB 120 WKYCV 124

RESULT 15
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XX
AC AAB65230;
XX
DT 02-APR-2001 (first entry)
XX
DE Human PRO1068 (UNO525) protein sequence SEQ ID NO:266.
XX
KW Human; secreted and transmembrane protein; PRO; cytosolic;
KW cell death; cancer; chromosomal mapping; gene mapping; tissue typing;
KW diagnostic assay.
XX
OS Homo sapiens.
XX
PN WO200073454-A1.
XX
PD 07-DEC-2000.
XX
PE 30-MAR-2000; 2000WO-US08439.
XX
PR 02-JUN-1999; 99WO-US12252.
PR 23-JUN-1999; 99US-0141037.
PR 07-JUL-1999; 99US-0143048.
PR 20-JUL-1999; 99US-0144758.
PR 26-JUL-1999; 99US-0145698.
PR 28-JUL-1999; 99US-0146222.
PR 17-AUG-1999; 99US-0149396.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 08-OCT-1999; 99US-0158663.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 02-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06884.
PR 20-MAR-2000; 2000WO-US07377.
XX
PA (GETH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Fong S, Gerber H, Gerlitsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
WPI: 2001-032160/04.
DR N-PSDB; AAF4193.
XX
PT PRO polynucleotides used to produce polypeptides used to target

```

```

PT bioactive molecules such as toxins, radiolabels or antibodies, to
PT specific cells, to cause targeted cell death -
XX
PS Claim 12; Fig 184; 935pp; English.
XX
XX The present invention describes human secreted and transmembrane PRO
CC proteins. The PRO proteins have cytosolic activity. The PRO proteins
CC can be used for targeted delivery of bioactive molecules, such as
CC toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide
CC sequences, and their fragments, can be used as hybridisation probes, in
CC and DNA. They may also be used to produce transgenic animals which are
CC used to develop and screen therapeutically useful reagents. The PRO
CC nucleotide and protein sequence can be used for tissue typing and in
CC treating cancer. Anti-PRO antibodies can be used in diagnostic assays.
CC AAF4270 to AAF4470 represent PCR primers and hybridisation probes used
CC in the isolation of human PRO sequences. AAF44087 to AAF44269 and
CC AAB65154 to AAB65300 represent human PRO polynucleotide and protein
CC sequences given in the exemplification of the present invention.
XX
SQ Sequence 124 AA:

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Query Match 44.2%; Score 279.5; DB 22; Length 124;
Best Local Similarity 49.6%; Pred. No. 6e-23;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

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QY 1 MDRVPCCLIFVGLNPLSPYTDIGEMSLQPLVEENALRALAELEERTALLQTLQOTV 60
DB 1 MYKLASCCLETFGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLIQILPEML 60
QY 61 GTEAEGSLGQADPSAETPTPRGSLRK--ALTGDSNTVLSRLARTRKOROHGTAPCECF 118
DB 61 GAERGDILRKADSTNIFNPRGNLRKFQDFSGODPNILLSHLARIKPKRKRET-PDCE 119
QY 119 WKYCI 123
DB 120 WKYCV 124

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Search completed: March 10, 2003, 17:38:44
Job time : 29.9189 secs

KW pharmaceutical; receptor immunoadhesin; gene mapping.
XX
OS Homo sapiens.
XX
PN WO9963088-A2.
XX
PD 09-DEC-1999.
XX
PF 02-JUN-1999; 99MO-US12252.
XX
PR 02-JUN-1998; 98US-0087607.
PR 02-JUN-1998; 98US-0087609.
PR 02-JUN-1998; 98US-0087759.
PR 03-JUN-1998; 98US-0087827.
PR 04-JUN-1998; 98US-0088021.
PR 04-JUN-1998; 98US-0088025.
PR 04-JUN-1998; 98US-0088028.
PR 04-JUN-1998; 98US-0088029.
PR 04-JUN-1998; 98US-0088030.
PR 04-JUN-1998; 98US-0088033.
PR 04-JUN-1998; 98US-0088326.
PR 05-JUN-1998; 98US-0088167.
PR 05-JUN-1998; 98US-0088202.
PR 05-JUN-1998; 98US-0088212.
PR 05-JUN-1998; 98US-0088217.
PR 09-JUN-1998; 98US-0088655.
PR 10-JUN-1998; 98US-0088722.
PR 10-JUN-1998; 98US-0088730.
PR 10-JUN-1998; 98US-0088734.
PR 10-JUN-1998; 98US-0088738.
PR 10-JUN-1998; 98US-0088740.
PR 10-JUN-1998; 98US-0088741.
PR 10-JUN-1998; 98US-0088742.
PR 10-JUN-1998; 98US-0088810.
PR 10-JUN-1998; 98US-0088811.
PR 10-JUN-1998; 98US-0088824.
PR 10-JUN-1998; 98US-0088825.
PR 10-JUN-1998; 98US-0088826.
PR 11-JUN-1998; 98US-0088858.
PR 11-JUN-1998; 98US-0088861.
PR 11-JUN-1998; 98US-0088863.
PR 11-JUN-1998; 98US-0088876.
PR 12-JUN-1998; 98US-0089090.
PR 12-JUN-1998; 98US-0089105.
PR 16-JUN-1998; 98US-0089440.
PR 16-JUN-1998; 98US-0089512.
PR 16-JUN-1998; 98US-0089514.
PR 17-JUN-1998; 98US-0089532.
PR 17-JUN-1998; 98US-0089538.
PR 17-JUN-1998; 98US-0089598.
PR 17-JUN-1998; 98US-0089599.
PR 17-JUN-1998; 98US-0089600.
PR 17-JUN-1998; 98US-0089653.
PR 18-JUN-1998; 98US-0089801.
PR 18-JUN-1998; 98US-0089907.
PR 18-JUN-1998; 98US-0089908.
PR 19-JUN-1998; 98US-0089947.
PR 19-JUN-1998; 98US-0089948.
PR 19-JUN-1998; 98US-0089952.
PR 22-JUN-1998; 98US-0090246.
PR 22-JUN-1998; 98US-0090252.
PR 22-JUN-1998; 98US-0090254.
PR 23-JUN-1998; 98US-0090349.
PR 23-JUN-1998; 98US-0090355.
PR 24-JUN-1998; 98US-0090429.
PR 24-JUN-1998; 98US-0090431.
PR 24-JUN-1998; 98US-0090435.
PR 24-JUN-1998; 98US-0090444.
PR 24-JUN-1998; 98US-0090445.
PR 24-JUN-1998; 98US-0090461.
PR 24-JUN-1998; 98US-0090472.
PR 24-JUN-1998; 98US-0090535.
PR 24-JUN-1998; 98US-0090538.

PR 24-JUN-1998; 98US-0090540.
PR 24-JUN-1998; 98US-0090557.
PR 25-JUN-1998; 98US-0090676.
PR 25-JUN-1998; 98US-0090678.
PR 25-JUN-1998; 98US-0090680.
PR 25-JUN-1998; 98US-0090690.
PR 25-JUN-1998; 98US-0090691.
PR 25-JUN-1998; 98US-0090694.
PR 25-JUN-1998; 98US-0090695.
PR 25-JUN-1998; 98US-0090696.
PR 26-JUN-1998; 98US-0090697.
PR 26-JUN-1998; 98US-0090698.
PR 01-JUL-1998; 98US-0091358.
PR 01-JUL-1998; 98US-0091360.
PR 01-JUL-1998; 98US-0091544.
PR 02-JUL-1998; 98US-0091478.
PR 02-JUL-1998; 98US-0091486.
PR 02-JUL-1998; 98US-0091519.
PR 02-JUL-1998; 98US-0091626.
PR 02-JUL-1998; 98US-0091628.
PR 02-JUL-1998; 98US-0091633.
PR 02-JUL-1998; 98US-0091646.
PR 02-JUL-1998; 98US-0091673.
PR 07-JUL-1998; 98US-0091978.
PR 07-JUL-1998; 98US-0092182.
PR 10-JUL-1998; 98US-0092472.
PR 20-JUL-1998; 98US-0093339.
PR 30-JUL-1998; 98US-0094651.
PR 04-AUG-1998; 98US-0095282.
PR 04-AUG-1998; 98US-0095285.
PR 04-AUG-1998; 98US-0095301.
PR 04-AUG-1998; 98US-0095302.
PR 04-AUG-1998; 98US-0095318.
PR 04-AUG-1998; 98US-0095321.
PR 10-AUG-1998; 98US-0095916.
PR 10-AUG-1998; 98US-0095929.
PR 10-AUG-1998; 98US-0096012.
PR 11-AUG-1998; 98US-0096143.
PR 11-AUG-1998; 98US-0096146.
PR 12-AUG-1998; 98US-0096329.
PR 17-AUG-1998; 98US-0096757.
PR 17-AUG-1998; 98US-0096766.
PR 17-AUG-1998; 98US-0096768.
PR 17-AUG-1998; 98US-0096773.
PR 17-AUG-1998; 98US-0096791.
PR 17-AUG-1998; 98US-0096894.
PR 17-AUG-1998; 98US-0096895.
PR 18-AUG-1998; 98US-0096897.
PR 18-AUG-1998; 98US-0096949.
PR 18-AUG-1998; 98US-0096950.
PR 18-AUG-1998; 98US-0096959.
PR 18-AUG-1998; 98US-0096960.
PR 18-AUG-1998; 98US-0097022.
PR 19-AUG-1998; 98US-0097141.
PR 20-AUG-1998; 98US-0097218.
PR 24-AUG-1998; 98US-0097561.
PR 26-AUG-1998; 98US-0097951.
PR 26-AUG-1998; 98US-0097952.
PR 26-AUG-1998; 98US-0097954.
PR 26-AUG-1998; 98US-0097955.
PR 26-AUG-1998; 98US-0097971.
PR 26-AUG-1998; 98US-0097974.
PR 26-AUG-1998; 98US-0097978.
PR 26-AUG-1998; 98US-0097979.
PR 26-AUG-1998; 98US-0097986.
PR 31-AUG-1998; 98US-0098014.
PR 16-SEP-1998; 98US-0098525.
PR 12-JAN-1999; 98US-0100634.
PR 99US-0115565.

XX 26-NOV-1998: 98FR-0014914.
PR (INRM) INST NAT SANTE & RECH MEDICALE.
XX Beauvillain J, Coulouarn Y, Jegou S, Lohrmann I, Vaudry H:
PI WPI: 2000-400075/34.
XX N-PSDB: AAA466598.
DR
XX New mammalian urotensin II polypeptide, useful for treating
PT neurodegeneration and spinal cord injury -
XX
PS Claim 2: Fig 2: 42pp: French.
XX
XX The present sequence represents a human prepro-urotensin II polypeptide.
CC In mammals, urotensin II promotes survival and regeneration of motor
CC neurons, and also has a hypertensive effect. The urotensin II
CC polypeptides and polynucleotides are useful for treating
CC neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
CC para-plegia or amyotrophic lateral sclerosis). The polypeptides
CC are also used to screen for specific inhibitors, i.e. potential
CC antihypertensive agents.
XX
XX Sequence 124 AA:
SQ
Query Match 44.6%; Score 282.5; DB 21: Length 124;
Best Local Similarity 49.6%; Pred. No. 2.8e-23;
Matches 62; Conservative 17; Mismatches 43; Indels 3; Gaps 2;
QY 1 MDRVPCCLFVGLNPLSPYVDTGEMSLQPLVEENALRALEELERALLQTLQOTV 60
1 MYKLASCCFLFGLNPLSLPLDSREISFQLSAPHEADRLPEELERASLLQILEM 60
DB 61 GTEAEGSLGADPSAETPTPGSLRK--ALTGDSNTVLSRLARTKOROHCTAPECF 118
61 GAERGDLIRKADSTNIFNPRGNLRKFQDSGQDPNILLSHLARIKPKYKKRET-PDCF 119
QY 119 WKYCI 123
119 WKYCI 123
DB 120 WKYCV 124

RESULT 12

AAV87319
ID AAV87319 standard; Protein: 124 AA.

XX AAV87319;

XX 11-MAY-2000 (first entry)

XX Human signal peptide containing protein HSP-96 SEQ ID NO:96.

XX Human: signal peptide-containing protein: HSP: diagnosis: cancer:
XX inflammation; cardiovascular disease; anticancer: anti-inflammatory;
XX antimicrobial; neurotropic; neuroprotective; cardiovascular; hepatotropic;
XX antistimatic; gene therapy; cell proliferation; neurological disorder;
XX reproductive disorder; developmental disorder; arteriosclerosis;
XX cirrhosis; psoriasis; acquired immune deficiency syndrome; anemia;
XX asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
XX Parkinson's disease; Huntington's disease; ovulatory defect;
XX muscular dystrophy.

OS Homo sapiens.

XX WO200000610-A2.

XX 06-JAN-2000.

XX 25-JUN-1999: 99WO-US14484.

XX 26-JUN-1998: 98US-0090762.
PR 31-JUL-1998: 98US-0094983.

PR 01-OCT-1998: 98US-0102686.
PR 11-DEC-1998: 98US-0112129.
XX (INCY-) INCYTE PHARM INC.
XX Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR:
PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL,
PI Bandman O:
XX WPI: 2000-160673/14.
XX N-PSDB: AAZ98204.
DR
XX New human signal peptide-containing proteins useful in treatment,
PT prevention and diagnosis of e.g. cancer, inflammation and
PT cardiovascular disease -
XX
PS Claim 1: Page 221-222: 327pp: English.

XX AA298109 to AA298242 encode AAV87224 to AAV87357 which represent the
CC human signal peptide-containing proteins HSP-1 to HSP-134. HSPs have
CC anticancer, anti-inflammatory, antimicrobial, neurotropic, hepatotropic,
CC neuroprotective, cardiovascular and antistimatic activities, and can
CC be used in gene therapy. HSPs can be used to treat or prevent disorders
CC associated with decreased activity or function of HSP. Antagonists of
CC HSP are used to treat or prevent disorders associated with increased
CC activity or function of HSP. Such diseases include cell proliferation
CC (including cancer), inflammation, cardiovascular, neurological,
CC reproductive or developmental disorders, (e.g. arteriosclerosis,
CC cirrhosis, psoriasis, acquired immune deficiency syndrome, anemia,
CC asthma, Crohn's disease, microbial or other infections, congestive or
CC ischemic heart disease, Alzheimer's, Parkinson's or Huntington's
CC diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSP
CC nucleic acids can be used for the recombinant production of HSP, for
CC detecting HSP in standard hybridisation and amplification assays (for
CC diagnosis and monitoring). In gene therapy, as antisense,
CC triplex-forming or ribozyme therapeutics, for detecting related sequences
CC or genetic variations, and for chromosomal mapping. HSP are also used to
CC raise specific antibodies (Ab) and to screen for agonists and
CC antagonists (potential therapeutic agents). Ab are used to diagnose, or
CC monitor, HSP-related diseases (in usual immunoassays), as therapeutic
CC antagonists, in competitive drug screens, and for purification of HSP
CC from natural sources.

SQ Sequence 124 AA:

Query Match 44.6%; Score 282.5; DB 21: Length 124;
Best Local Similarity 49.6%; Pred. No. 2.8e-23;
Matches 62; Conservative 17; Mismatches 43; Indels 3; Gaps 2;

QY 1 MDRVPCCLFVGLNPLSPYVDTGEMSLQPLVEENALRALEELERALLQTLQOTV 60

DB 1 MYKLASCCFLFGLNPLSLPLDSREISFQLSAPHEADRLPEELERASLLQILEM 60

QY 61 GTEAEGSLGADPSAETPTPGSLRK--ALTGDSNTVLSRLARTKOROHCTAPECF 118

DB 61 GAERGDLIRKADSTNIFNPRGNLRKFQDSGQDPNILLSHLARIKPKYKKRET-PDCF 119

QY 119 WKYCI 123

DB 120 WKYCV 124

RESULT 13

AAV6707
ID AAV6707 standard; Protein: 124 AA.

XX AAV6707;

XX 05-APR-2000 (first entry)

XX Membrane-bound protein PRO1068.

XX Membrane-bound polypeptide: PRO polypeptide; LDL receptor; TIE ligand;
XX

DR WPI; 2000-412287/35.

XX Urotensin peptides which are ligands for sensory epithelium

PT neuropeptide-like receptor (SENR) for diagnosis and treatment of

PT hypertension

XX Example 36: Page 140-141; 147pp; Japanese.

XX The present invention provides peptides which are ligands for sensory

CC epithelium neuropeptide-like receptor (SENR), and their amides, esters

CC and salts. SENR is a G-protein coupled receptor protein (also known as

CC GPR14), and the peptides which are ligands for it are forms of the

CC peptide hormone urotensin II. The peptides can be used in the treatment

CC and diagnosis of hypertension and kidney disease, and the development of

CC drugs which are regulators of central functions, circulatory functions,

CC heart functions, immune system functions, digestive functions, metabolic

CC functions and genital functions. The present sequence represents a

CC bovine SENR ligand protein from the present invention.

XX

SQ Sequence 122 AA;

Query Match 46.4%; Score 293.5; DB 21; Length 122;

Best Local Similarity 49.6%; Pred. No. 1.7e-24;

Matches 61; Conservative 17; Mismatches 44; Indels 1; Gaps 1;

OY 1 MDRVPCCLLVGLINPLSPVPTDGTGMSIQLPVLEENALRALEBERTALLQTLROTV 60

DB 1 MYKLVSCLLFGLSINPLSLPVLDSDROESIQTLAPEDVRSITDELERASLLQMLPEMS 59

OY 61 GTEAGSGIQADPSAETPTPGSLRKALITGODSNVTLSRLARTRKOROKHTAPECFWK 120

DB 60 GAETEGELRNPTDPTNIFYPRGNMRKAFSGODPKLFLSDLSLRKQSKRGPSSSECFWK 119

OY 121 YCI 123

DB 120 YCV 122

RESULT 10

AAU80120

ID AAU80120 standard; Protein; 122 AA.

XX

AC AAU80120;

XX

DT 07-OCT-2002 (first entry)

XX

DE Cow sensory epithelium neuropeptide-like receptor (SENR) protein.

XX

KW SENR; Sensory epithelium neuropeptide-like receptor; cow; fear;

KW attention deficit disorder; narcolepsy; anxiety; depression; insomnia;

KW schizophrenia; G protein-coupled; receptor.

XX

OS Bos taurus.

XX

PN WO200214513-A1.

XX

PD 21-FEB-2002.

XX

PF 10-AUG-2001; 2001WO-JP06899.

XX

PR 10-AUG-2000; 2000JP-0247968.

XX

PA (TAKE) TAKEDA CHEM IND LTD.

XX

PI Matsumoto Y, Watanabe T, Takahashi H, Mori M;

XX

DR WPI; 2002-329576/36.

XX

PT Polypeptide GPR12 with ligand activity to sensor epithelium

PT neuropeptide-like receptor, useful e.g. in treating attention deficit

PT disorder or narcolepsy, or for screening drug candidates for these

PT indications and for anxiety

PS Claim 6: Page 276; 290pp; Japanese.

XX

CC This invention relates to an anti-attention deficit disorder or anti-

CC narcolepsy agent containing a polypeptide with a sequence identical or

CC substantially similar to a fully defined 12 amino acid sequence given in

CC the specification, and its amide, ester or their salt. The peptides

CC have ligand activity to sensory epithelium neuropeptide-like receptor

CC (SENR) protein. The invention also includes a method for diagnosing

CC attention deficit disorder, narcolepsy, anxiety, depression, insomnia,

CC schizophrenia or fear. The polypeptides of the invention, their

CC precursor proteins and their encoding DNAs are useful in treating

CC attention deficit disorder or narcolepsy, or for screening drug

CC candidates for these indications and for anxiety, depression, insomnia,

CC schizophrenia or fear. They are also useful for gene therapy. The

CC polypeptide is a G protein-coupled receptor protein, with ligand

CC activity to sensor epithelium neuropeptide-like receptor. The present

CC sequence represents the cow sensory endothelium neuropeptide-like

CC receptor protein of the invention.

XX

SQ Sequence 122 AA;

Query Match 46.4%; Score 293.5; DB 23; Length 122;

Best Local Similarity 49.6%; Pred. No. 1.7e-24;

Matches 61; Conservative 17; Mismatches 44; Indels 1; Gaps 1;

OY 1 MDRVPCCLLVGLINPLSPVPTDGTGMSIQLPVLEENALRALEBERTALLQTLROTV 60

DB 1 MYKLVSCLLFGLSINPLSLPVLDSDROESIQTLAPEDVRSITDELERASLLQMLPEMS 59

OY 61 GTEAGSGIQADPSAETPTPGSLRKALITGODSNVTLSRLARTRKOROKHTAPECFWK 120

DB 60 GAETEGELRNPTDPTNIFYPRGNMRKAFSGODPKLFLSDLSLRKQSKRGPSSSECFWK 119

OY 121 YCI 123

DB 120 YCV 122

RESULT 11

AAV93639

ID AAV93639 standard; Protein; 124 AA.

XX

AC AAV93639;

XX

DT 25-SEP-2000 (first entry)

XX

DE Amino acid sequence of a human prepro-urotensin II (uII) polypeptide.

XX

KW Urotensin II; motor neuron; hypertensive; neurodegeneration;

KW spinal cord trauma; hemi-plegia; para-plegia;

KW amyotrophic lateral sclerosis; antihypertensive agent.

XX

OS Homo sapiens.

XX

EH Key

FT Peptide 1..20 Location/Qualifiers

FT /note= "signal peptide"

FT Peptide 21..110

FT /note= "pro-segment of urotensin II"

FT Misc-difference 46 /note= "encoded by GAC"

FT Misc-difference 47 /note= "encoded by GTA"

FT Misc-difference 81 /note= "encoded by ATT"

FT Peptide 114..124 /note= "urotensin II"

XX

PN WO200031265-A1.

XX

PD 02-JUN-2000.

XX

PF 26-NOV-1999; 99WO-FR02941.

```

FT FT Peptide /note="pro-segment"
FT FT 90..103
FT FT /note="urotensin II peptide"
PN PN WO200031265-A1.
XX XX
XX XX 02-JUN-2000.
XX XX
XX XX 26-NOV-1999; 99WO-FR02941.
XX XX
XX XX 26-NOV-1998; 98FR-0014914.
XX XX
XX XX (INRM ) INST NAT SANTE & RECH MEDICALE.
XX XX
XX XX Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;
XX XX WPI: 2000-400075/34.
XX XX DR N-PSDB; AAA46711.
XX XX
XX XX New mammalian urotensin II polypeptide, useful for treating
XX XX neurodegeneration and spinal cord injury -
XX XX
XX XX Claim 2; Page 30-31; 42pp; French.
XX XX
XX XX The present sequence represents a rat pro-urotensin II polypeptide.
XX XX In mammals, urotensin II promotes survival and regeneration of motor
XX XX neurons, and also has a hypertensive effect. The urotensin II
XX XX polypeptides and polynucleotides are useful for treating
XX XX neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
XX XX para-plegia or amyotrophic lateral sclerosis). The polypeptides
XX XX are also used to screen for specific inhibitors, i.e. potential
XX XX antihypertensive agents.
XX XX
XX XX Sequence 103 AA:
SQ
XX
XX Query Match 82.9%; Score 525; DB 21; Length 103;
XX Best Local Similarity 100.0%; Pred. No. 3.8e-50;
XX Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 21 FPYVDGEMSLQLPVLEENALRALEELERTALLOTLRQTVGTENGSLGQADPSAETPTP 80
XX DB 1 FPYVDGEMSLQLPVLEENALRALEELERTALLOTLRQTVGTENGSLGQADPSAETPTP 60
XX
XX QY 81 RGSRLKRALTGODSNTVLSRLARTRKORHGTAPECFMKYCI 123
XX DB 61 RGSRLKRALTGODSNTVLSRLARTRKORHGTAPECFMKYCI 103
XX
XX RESULT 8
XX AAY93648
XX ID AAY93648 standard; Protein: 103 AA.
XX XX
XX AC AAY93648;
XX XX
XX XX 25-SEP-2000 (first entry)
XX XX
XX DE Amino acid sequence of murine pro-urotensin II (U1) polypeptide.
XX XX
XX KM Urotensin II; motor neuron; hypertensive; neurodegeneration;
XX KM spinal cord trauma; hemi-plegia; para-plegia;
XX KM amyotrophic lateral sclerosis; antihypertensive agent.
XX XX
XX OS Mus sp.
XX XX
XX XX Key Location/Qualifiers
XX FT Peptide 1..86
XX FT /note="pro-segment"
XX FT Peptide 87..103
XX FT /note="urotensin II"
XX XX
XX PN WO200031265-A1.
XX XX
XX PD 02-JUN-2000.

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XX XX 26-NOV-1999; 99WO-FR02941.
XX PF
XX XX
XX PR 26-NOV-1998; 98FR-0014914.
XX XX
XX XX (INRM ) INST NAT SANTE & RECH MEDICALE.
XX XX
XX XX Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;
XX XX WPI: 2000-400075/34.
XX XX DR N-PSDB; AAA46720.
XX XX
XX XX New mammalian urotensin II polypeptide, useful for treating
XX XX neurodegeneration and spinal cord injury -
XX XX
XX XX Claim 2; Page 32; 42pp; French.
XX XX
XX XX The present sequence represents a murine pro-urotensin II polypeptide.
XX XX In mammals, urotensin II promotes survival and regeneration of motor
XX XX neurons, and also has a hypertensive effect. The urotensin II
XX XX polypeptides and polynucleotides are useful for treating
XX XX neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
XX XX para-plegia or amyotrophic lateral sclerosis). The polypeptides
XX XX are also used to screen for specific inhibitors, i.e. potential
XX XX antihypertensive agents.
XX XX
XX XX Sequence 103 AA:
SQ
XX
XX Query Match 68.6%; Score 434; DB 21; Length 103;
XX Best Local Similarity 83.3%; Pred. No. 4.2e-40;
XX Matches 85; Conservative 6; Mismatches 11; Indels 0; Gaps 0;
XX
XX QY 22 PVTDTGEMSLQLPVLEENALRALEELERTALLOTLRQTVGTENGSLGQADPSAETPTP 81
XX DB 2 PVTDTGEMSLQLPVLEENALRALEELERTALLOTLRQTVGTENGSLGQADPSAETPTP 61
XX
XX QY 82 GSLRKALTGODSNTVLSRLARTRKORHGTAPECFMKYCI 123
XX DB 62 GSKRKAFAGONSNTVLSRLARTRKORHGTAPECFMKYCI 103
XX
XX RESULT 9
XX AAB12501
XX ID AAB12501 standard; Protein: 122 AA.
XX XX
XX AC AAB12501;
XX XX
XX XX 27-OCT-2000 (first entry)
XX XX
XX DE Bovine SENR ligand protein sequence SEQ ID NO:29.
XX XX
XX KM SENR; sensory epithelium neuropeptide-like receptor; urotensin II;
XX KM diagnosis; G protein-coupled receptor; hypertension; GPR14; hormone;
XX KM kidney disease; regulator; central function; circulatory function;
XX KM heart function; immune system function; digestive function;
XX KM metabolic function; genital function.
XX XX
XX OS Bos taurus.
XX XX
XX PN WO200032627-A1.
XX XX
XX PD 08-JUN-2000.
XX XX
XX XX 29-NOV-1999; 99WO-JP06649.
XX XX
XX XX 30-NOV-1998; 98JP-0338984.
XX PR 04-FEB-1999; 99JP-0026848.
XX PR 26-AUG-1999; 99JP-0239367.
XX XX
XX XX (TAKE ) TAKEDA CHEM IND LTD.
XX XX
XX XX Mori M, Abe M, Shimomura Y, Sugo T, Kitada C;
XX PI

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DR WPI: 2001-147192/15.
 DR N-PSDB; AAF59584.
 XX
 PT Urotensin II-like peptide originating in rat or mouse and encoded
 PT nucleic acid, useful in study of its physiological effects, for
 PT diagnosis and development of drugs for controlling e.g. central nervous
 PT function -
 XX
 PS Claim 5; Page 99; 110pp; Japanese.
 XX
 CC The invention relates to novel rat and mouse urotensin II-like peptide
 CC (AAB60443-AAB60444, AAB60445, AAB60446, AAB60447, AAB60448, AAB60449, AAB60450, AAB60451, AAB60452), their amides, esters
 CC or salts, their precursor proteins (AAB60442, AAB60443, AAB60444, AAB60445, AAB60446, AAB60447, AAB60448, AAB60449, AAB60450, AAB60451, AAB60452),
 CC acids encoding the urotensin II-like peptides (AAF59575-AAF59576, AAF59585-AAF59589) or the urotensin II-like peptide protein precursors
 CC (AAF59574, AAF59584). The urotensin II-like peptide protein precursors
 CC sensory epithelium neuropeptide-like receptor (SENR). The invention also
 CC relates to vectors and transfectants comprising the novel nucleic acid
 CC sequences, the recombinant production of the rat or mouse urotensin II-
 CC like peptides or their precursors, an antibody against a urotensin II-
 CC like peptide or precursor, a method of screening for compounds which can
 CC modulate the binding of urotensin II-like peptides to the SENR, the
 CC compounds thus identified, and a method of quantitating urotensin II-like
 CC peptides or their precursors. The peptides and proteins, and nucleic
 CC acids encoding them are useful in study of the physiological effects of
 CC urotensin II-like peptide/SENR interactions, and for the diagnosis and
 CC development of drugs (including gene therapy compositions) for modulating
 CC e.g., central nervous function, cardiac function and circulatory
 CC function. The present sequence represents the mouse urotensin II-like
 CC peptide precursor protein of the invention.
 CC
 XX
 SQ Sequence 123 AA;
 Query Match 85.5%; Score 541; DB 22; Length 123;
 Best Local Similarity 84.6%; Pred. No. 8.3e-52;
 Matches 104; Conservative 7; Mismatches 12; Indels 0; Gaps 0;
 QY 1 MDRVPCCLLVGGLNPLSPVDTGEMSLQPLVEENALRALEELERTALLQTLRTV 60
 DB 1 MDRVPCCLLVGGLNPLSPVDTGEMSLQPLVEENALRALEELERTALLQTLRTV 60
 QY 61 GTEAGSLGQADPSAEPTPRGSLRKALTGODSNTVLSRLARTRKQKQGTAPCECFWK 120
 DB 61 GTEAGSEPGEGAPSTETPTPRGSMKRAFGQNSNTVLSRLARTRKQKQGTAPCECFWK 120
 QY 121 YCI 123
 DB 121 YCI 123
 RESULT 6
 ID AAB60124 standard; Protein: 123 AA.
 XX
 AC AAB60124;
 XX
 DT 07-OCT-2002 (first entry)
 DE Mouse urotensin II-like peptide #1.
 XX
 DE SENR: sensory epithelium neuropeptide-like receptor; mouse; fear;
 KM attention deficit disorder; narcolepsy; anxiety; depression; insomnia;
 KW schizophrenia; G protein-coupled; receptor.
 XX
 OS Mus sp.
 XX
 FH Key Location/Qualifiers
 FT Misc-difference 1 /note= "Proglutamic acid or glutamine"
 XX
 PN W0200214513-A1.
 XX
 PD 21-FEB-2002.

XX
 PF 10-AUG-2001; 2001MO-JP06899.
 XX
 PR 10-AUG-2000; 2000JP-0247968.
 XX
 PA (TAKE) TAKEDA CHEM IND LTD.
 XX
 PI Matsumoto Y, Watanabe T, Takahashi H, Mori M;
 XX
 DR WPI: 2002-329576/36.
 DR N-PSDB; ABR50030.
 XX
 PT Polypeptide GPR12 with ligand activity to sensor epithelium
 PT neuropeptide-like receptor, useful e.g. in treating attention deficit
 PT disorder or narcolepsy, or for screening drug candidates for these
 PT indications and for anxiety -
 XX
 PS Claim 6; Page 280; 290pp; Japanese.
 XX
 CC This invention relates to an anti-attention deficit disorder or anti-
 CC narcolepsy agent containing a polypeptide with a sequence identical or
 CC substantially similar to a fully defined 12 amino acid sequence given in
 CC the specification, and its amide, ester or their salt. The peptides
 CC have ligand activity to sensory epithelium neuropeptide-like receptor
 CC (SENR) protein. The invention also includes a method for diagnosing
 CC attention deficit disorder, narcolepsy, anxiety, depression, insomnia,
 CC schizophrenia or fear. The polypeptides of the invention, their
 CC precursor proteins and their encoding DNAs are useful in treating
 CC attention deficit disorder or narcolepsy, or for screening drug
 CC candidates for these indications and for anxiety, depression, insomnia,
 CC schizophrenia or fear. They are also useful for gene therapy. The
 CC polypeptide is a G protein-coupled receptor protein, with ligand
 CC activity to sensor epithelium neuropeptide-like receptor. The present
 CC sequence represents the mouse neuropeptide II-like peptide of the
 CC invention.
 CC
 XX
 SQ Sequence 123 AA;
 Query Match 85.5%; Score 541; DB 23; Length 123;
 Best Local Similarity 84.6%; Pred. No. 8.3e-52;
 Matches 104; Conservative 7; Mismatches 12; Indels 0; Gaps 0;
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 DB 1 MDRVPCCLLVGGLNPLSPVDTGEMSLQPLVEENALRALEELERTALLQTLRTV 60
 QY 61 GTEAGSLGQADPSAEPTPRGSLRKALTGODSNTVLSRLARTRKQKQGTAPCECFWK 120
 DB 61 GTEAGSEPGEGAPSTETPTPRGSMKRAFGQNSNTVLSRLARTRKQKQGTAPCECFWK 120
 QY 121 YCI 123
 DB 121 YCI 123
 RESULT 7
 ID AAY93645 standard; Protein: 103 AA.
 XX
 AC AAY93645;
 XX
 DT 25-SEP-2000 (first entry)
 DE Amino acid sequence of rat pro-urotensin II (III) polypeptide.
 XX
 DE Urotensin II; motor neuron; hypertensive; neurodegeneration;
 KM spinal cord trauma; hemi-plegia; para-plegia;
 KW amyotrophic lateral sclerosis; antihypertensive agent.
 XX
 OS Rattus sp.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..89

DR WPI: 2002-329576/36.
XX polypeptide GPR12 with ligand activity to sensor epithelium
PR neuropeptide-like receptor, useful e.g. in treating attention deficit
PT disorder or narcolepsy, or for screening drug candidates for these
PI indications and for anxiety
XX
PS Claim 6: Page 277-278; 290pp; Japanese.
XX
CC This invention relates to an anti-attention deficit disorder or anti-
CC narcolepsy agent containing a polypeptide with a sequence identical or
CC substantially similar to a fully defined 12 amino acid sequence given in
CC the specification, and its amide, ester or their salt. The peptides
CC have ligand activity to sensory epithelium neuropeptide-like receptor
CC (SENR) protein. The invention also includes a method for diagnosing
CC attention deficit disorder, narcolepsy, anxiety, depression, insomnia,
CC schizophrenia or fear. The polypeptides of the invention, their
CC precursor proteins and their encoding DNAs are useful in treating
CC attention deficit disorder or narcolepsy, or for screening drug
CC candidates for these indications and for anxiety, depression, insomnia,
CC schizophrenia or fear. They are also useful for gene therapy. The
CC polypeptide is a G protein-coupled receptor protein, with ligand
CC activity to sensor epithelium neuropeptide-like receptor. The present
CC sequence represents the rat sensory endothelium neuropeptide-like
CC receptor protein of the invention.
XX
SQ Sequence 123 AA:
Query Match 100.0%; Score 633; DB 23; Length 123;
Best Local Similarity 100.0%; Pred. No. 5.8e-62;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MDRVPFCCLLFVGLNPLSPFYDTGEMSLQPLVEENALRALELEERFALLQTLRQTV 60
DB 1 MDRVPFCCLLFVGLNPLSPFYDTGEMSLQPLVEENALRALELEERFALLQTLRQTV 60
QY 61 GTEAEGSLGADPSAETPTPGSLRKALTGODSNTVLSRLLRKQKQKGTAPCECFWK 120
DB 61 GTEAEGSLGADPSAETPTPGSLRKALTGODSNTVLSRLLRKQKQKGTAPCECFWK 120
QY 121 YCI 123
DB 121 YCI 123
DB 121 YCI 123
RESULT 4
AAY93647 standard; Protein; 123 AA.
XX
AC AAY93647;
XX
DT 25-SEP-2000 (first entry)
XX
DE Amino acid sequence of murine prepro-urotensin II (UII) polypeptide.
XX
KW Urotensin II: motor neuron; hypertensive; neurodegeneration;
KW spinal cord trauma; hemi-plegia; para-plegia;
KW amyotrophic lateral sclerosis; antihypertensive agent.
XX
OS Mus sp.
XX
FH Key Location/Qualifiers
FT Peptide 1..20
FT Peptide /note="signal peptide"
FT Peptide 21..106
FT Peptide /note="pro-segment"
FT Peptide 107..123
FT Peptide /note="urotensin II"
XX
PN WO200031265-A1.
XX
PD 02-JUN-2000.

PF 26-NOV-1999; 99WO-FR02941.
XX
PR 26-NOV-1998; 98FR-0014914.
XX
PA (INRM) INST NAT SANTE & RECH MEDICALE.
XX
PI Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;
XX
DR WPI: 2000-400075/34.
DR N-PSDB: AAA46719.
XX
PT New mammalian urotensin II polypeptide, useful for treating
PT neurodegeneration and spinal cord injury
XX
PS Claim 2: Page 31; 42pp; French.
XX
CC The present sequence represents a murine prepro-urotensin II polypeptide.
CC In mammals, urotensin II promotes survival and regeneration of motor
CC neurons, and also has a hypertensive effect. The urotensin II
CC polypeptides and polynucleotides are useful for treating
CC neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
CC para-plegia or amyotrophic lateral sclerosis). The polypeptides
CC are also used to screen for specific inhibitors, i.e. potential
CC antihypertensive agents.
XX
SQ Sequence 123 AA:
Query Match 85.5%; Score 541; DB 21; Length 123;
Best Local Similarity 84.6%; Pred. No. 8.3e-52;
Matches 104; Conservative 7; Mismatches 12; Indels 0; Gaps 0;
QY 1 MDRVPFCCLLFVGLNPLSPFYDTGEMSLQPLVEENALRALELEERFALLQTLRQTV 60
DB 1 MDRVPFCCLLFVGLNPLSPFYDTGEMSLQPLVEENALRALELEERFALLQTLRQTV 60
QY 61 GTEAEGSLGADPSAETPTPGSLRKALTGODSNTVLSRLLRKQKQKGTAPCECFWK 120
DB 61 GTEAEGSLGADPSAETPTPGSLRKALTGODSNTVLSRLLRKQKQKGTAPCECFWK 120
QY 121 YCI 123
DB 121 YCI 123
DB 121 YCI 123
RESULT 5
AAB60445 standard; Protein; 123 AA.
XX
AC AAB60445;
XX
DT 24-APR-2001 (first entry)
XX
DE Mouse urotensin II-like peptide precursor protein, SEQ ID NO:26.
XX
KW Urotensin II-like peptide; precursor protein; mouse; murine; SENR ligand;
KW drug screening; sensory epithelium neuropeptide-like receptor;
KW diagnosis; central nervous function; cardiac function;
KW circulatory function.
XX
OS Mus sp.
XX
PN WO200104298-A1.
XX
PD 18-JAN-2001.
XX
PF 06-JUL-2000; 2000WO-JP04484.
XX
PR 08-JUL-1999; 99JP-0194091.
XX
PA (TAKE) TAKEDA CHEM IND LTD.
XX
PI Sugo T, Kurihara M, Kikada C, Mori M;
XX

XX PI Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;
 XX DR WPI: 2000-400075/34.
 XX DR N-PSDB; AAA46710.
 XX PT New mammalian urotensin II polypeptide, useful for treating
 XX neurodegeneration and spinal cord injury -
 PS Disclosure; Page 30; 42pp; French.
 CC The present sequence represents a rat prepro-urotensin II polypeptide.
 CC In mammals, urotensin II promotes survival and regeneration of motor
 CC neurons, and also has a hypertensive effect. The urotensin II
 CC polypeptides and polynucleotides are useful for treating
 CC neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
 CC para-plegia or amyotrophic lateral sclerosis). The polypeptides
 CC are also used to screen for specific inhibitors, i.e. potential
 CC antihypertensive agents.
 XX
 SQ Sequence 123 AA;
 Query Match 100.0%; Score 633; DB 21; Length 123;
 Best Local Similarity 100.0%; Pred. No. 5.8e-62;
 Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MDRVPECCLLFVGLNPLSPVDTGEMSLQPVLEENALRALEEERALLQTLKQTV 60
 Db 1 MDRVPECCLLFVGLNPLSPVDTGEMSLQPVLEENALRALEEERALLQTLKQTV 60
 QY 61 GTEAEGSLGADPSAETPTRGSLRKALTGODSNTVLSRLARTRKORHGTAPCEFWK 120
 Db 61 GTEAEGSLGADPSAETPTRGSLRKALTGODSNTVLSRLARTRKORHGTAPCEFWK 120
 QY 121 YCI 123
 Db 121 YCI 123
 RESULT 2
 AAB60442
 ID AAB60442 standard; Protein; 123 AA.
 AC AAB60442;
 XX
 DT 24-APR-2001 (first entry)
 DE Rat urotensin II-like peptide precursor protein, SEQ ID NO:13.
 XX
 KW Urotensin II-like peptide; precursor protein; rat; SENR ligand;
 KW drug screening; sensory epithelium neuropeptide-like receptor;
 KW diagnosis; central nervous function; cardiac function;
 KW circulatory function.
 XX
 OS Rattus sp.
 XX
 DE WO200104298-A1.
 XX
 PD 18-JAN-2001.
 XX
 PF 06-JUL-2000; 2000WO-JP04484.
 XX
 PR 08-JUL-1999; 99JP-0194091.
 XX
 PA (TAKE) TAKEDA CHEM IND LTD.
 XX
 PI Sugo T, Kurihara M, Kitada C, Mori M;
 XX
 DR WPI: 2001-147192/15.
 XX
 DR N-PSDB; AAF59574.
 XX
 PT Urotensin II-like peptide originating in rat or mouse and encoded
 PT nucleic acid, useful in study of its physiological effects, for

PT diagnosis and development of drugs for controlling e.g. central nervous
 PT function -
 XX
 XX Claim 5; Page 95; 110pp; Japanese.
 PS
 CC The invention relates to novel rat and mouse urotensin II-like peptide
 CC (AAB60443-AAB60444, AAB60446, AAB60449-AAB60452), their amides, esters
 CC or salts, their precursor proteins (AAB60442, AAB60445), and to nucleic
 CC acids encoding the urotensin II-like peptides (AAF59575-AAF59576,
 CC AAF59585-AAF59589) or the urotensin II-like peptide protein precursors
 CC (AAF59574, AAF59584). The urotensin II-like peptides are ligands of the
 CC sensory epithelium neuropeptide-like receptor (SENR). The invention also
 CC relates to vectors and transformants comprising the novel nucleic acid
 CC sequences, the recombinant production of the rat or mouse urotensin II-
 CC like peptides or their precursors, an antibody against a urotensin II-
 CC like peptide or precursor, a method of screening for compounds which can
 CC modulate the binding of urotensin II-like peptides to the SENR, the
 CC compounds thus identified, and a method of quantitating urotensin II-like
 CC peptides or their precursors. The peptides and proteins, and nucleic
 CC acids encoding them are useful in study of the physiological effects of
 CC urotensin II-like peptide/SENR interactions, and for the diagnosis and
 CC development of drugs (including gene therapy compositions) for modulating
 CC e.g., central nervous function, cardiac function and circulatory
 CC function. The present sequence represents the rat urotensin II-like
 CC peptide precursor protein of the invention.
 XX
 SQ Sequence 123 AA;
 Query Match 100.0%; Score 633; DB 22; Length 123;
 Best Local Similarity 100.0%; Pred. No. 5.8e-62;
 Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MDRVPECCLLFVGLNPLSPVDTGEMSLQPVLEENALRALEEERALLQTLKQTV 60
 Db 1 MDRVPECCLLFVGLNPLSPVDTGEMSLQPVLEENALRALEEERALLQTLKQTV 60
 QY 61 GTEAEGSLGADPSAETPTRGSLRKALTGODSNTVLSRLARTRKORHGTAPCEFWK 120
 Db 61 GTEAEGSLGADPSAETPTRGSLRKALTGODSNTVLSRLARTRKORHGTAPCEFWK 120
 QY 121 YCI 123
 Db 121 YCI 123
 RESULT 3
 AAU80121
 ID AAU80121 standard; Protein; 123 AA.
 AC AAU80121;
 XX
 DT 07-OCT-2002 (first entry)
 DE Rat sensory epithelium neuropeptide-like receptor (SENR) protein.
 XX
 KW SENR; Sensory epithelium neuropeptide-like receptor; rat; fear;
 KW attention deficit disorder; narcolepsy; anxiety; depression; insomnia;
 KW schizophrenia; G protein-coupled; receptor.
 XX
 OS Rattus sp.
 XX
 DE WO200214513-A1.
 XX
 PN 21-FEB-2002.
 XX
 PD 10-AUG-2001; 2001WO-JP06899.
 XX
 PF 10-AUG-2000; 2000JP-0247968.
 XX
 PR (TAKE) TAKEDA CHEM IND LTD.
 XX
 PA Matsumoto Y, Watanabe T, Takahashi H, Mori M;
 XX
 PI

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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:24:52 : Search time 29.9189 Seconds
(without alignments)
547.808 Million cell updates/sec

Title: US-09-831-907A-30
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	633	100.0	123	21	AAV93644
2	633	100.0	123	22	AAB60442
3	633	100.0	123	23	AAU80121
4	541	85.5	123	21	AAV93647
5	541	85.5	123	22	AAB60445
6	541	85.5	123	23	AAU80124
7	525	82.9	103	21	AAV93645
8	434	68.6	103	21	AAV93648
9	293.5	46.4	122	21	AAB12501
10	293.5	46.4	122	23	AAU80120

11	282.5	44.6	124	21	AAV93639
12	282.5	44.6	124	21	AAV87319
13	279.5	44.2	124	21	AAV6707
14	279.5	44.2	124	21	AAAB20118
15	279.5	44.2	124	22	AAB65230
16	279.5	44.2	124	22	AAV50919
17	279.5	44.2	124	22	ABG34042
18	279.5	44.2	124	23	AAU81965
19	243.5	38.5	121	21	AAU81296
20	243.5	38.5	121	23	AAU80115
21	210.5	33.3	104	21	AAV93640
22	198.5	31.4	139	20	AAV39390
23	187.5	29.6	103	20	AAV39391
24	163.5	25.8	85	21	AAU81249
25	163.5	25.8	85	23	AAU80116
26	138	21.8	24	22	AAB60450
27	138	21.8	24	23	AAU80127
28	128	20.2	24	22	AAB60452
29	128	20.2	24	23	AAU80129
30	121	19.1	20	22	AAB60449
31	121	19.1	20	23	AAU80126
32	111	17.5	20	22	AAB60451
33	111	17.5	20	23	AAU80128
34	106	16.7	17	23	AAU80122
35	105	16.6	17	22	AAE02904
36	101	16.0	17	22	AAB60443
37	96	15.2	17	21	AAV93649
38	91	14.4	14	21	AAV93646
39	91	14.4	17	23	AAB60446
40	91	14.4	17	23	AAU80125
41	90	14.2	14	22	AAE02905
42	86	13.6	13	23	AAU80123
43	86	13.6	14	22	AAB60444
44	81.5	12.9	906	22	AAB81162
45	81	12.8	470	22	AAB61018

ALIGNMENTS

RESULT 1	
AAV93644	
ID	AAV93644 standard; Protein: 123 AA.
XX	
AC	AAV93644;
XX	
DT	25-SEP-2000 (first entry)
XX	
DE	Amino acid sequence of rat prepro-urotensin II (UII) polypeptide.
XX	
KW	Urotensin II; motor neuron; hypertensive; neurodegeneration;
KW	spinal cord trauma; hemi-plegia; para-plegia;
KW	amyotrophic lateral sclerosis; antihypertensive agent.
XX	
OS	Rattus sp.
XX	
FH	Key
FT	Peptide
FT	Location/Qualifiers
FT	1..20
FT	/note="signal peptide"
FT	21..109
FT	/note="pro-segment peptide"
FT	110..123
FT	/note="urotensin II peptide"
XX	
PN	WO200031265-A1.
XX	
PD	02-JUN-2000.
XX	
PF	26-NOV-1999; 99WO-FR02941.
XX	
PR	26-NOV-1998; 98FR-0014914.
XX	
PA	(INRM) INST NAT SANTE & RECH MEDICALE.

DB 325 KTLAKLALSDPN--KSHLESYYM-LKRREIEOC 355

RESULT 13

09ZMB6 PRELIMINARY; PRT; 534 AA.

AC 09ZMB6; 01-MAY-1999 (TREMBlrel. 10, Created)
 DT 01-MAY-1999 (TREMBlrel. 10, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE F21M11.11 protein.

OS Arabidopsis thaliana (Mouse-ear cress).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.
 NCBI_TaxID=3702;

OX NCBI_TaxID=3702;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN-CV. COLOMBIA;
 RA Federspiel N.A., Palm C.J., Conway A.B., Conn L., Hansen N.F.,
 RA Altati H., Araujo R., Huizar L., Rowley D., Buehler E., Dunn P.,
 RA Gonzalez A., Kremetska I., Kim C., Lenz C., Li J., Liu S.,
 RA Lueros S., Schwartz J., Shinn P., Toriumi M., Vysotskaia V.S.,
 RA Walker M., Yu G., Ecker J., Theologis A., Davis R.W.;
 RL Submitted (JAN-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AC003027; AAD10674.1;
 DR InterPro: IPR002048; EF-hand.
 DR Pfam: PF00036; efhand.1.
 DR PROSITE: PS00018; EF_HAND; UNKNOWN_1.
 SQ SEQUENCE 534 AA; 61847 MW; 4045736265759196 CRC64;

Query Match 11.4%; Score 74.5; DB 10; Length 534;
 Best Local Similarity 26.0%; Pred. No. 24;
 Matches 27; Conservative 21; Mismatches 33; Indels 23; Gaps 4;

DB 405 VINSNEMQFEFEOL--HMECTQEAIVFSDLIQIIMIGPEKNCITLQDKSKL 461

QY 23 LLDSEIETSE---QLSAPHEDARLTPEELERASLLQILPEMLGAERGI-----LRRKADS 73
 ID 098RS6 PRELIMINARY; PRT; 827 AA.

AC 098RS6; 01-OCT-2001 (TREMBlrel. 18, Created)
 DT 01-OCT-2001 (TREMBlrel. 18, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE US small nuclear ribonucleoprotein 116 kDa subunit.
 GN US snRNP.
 OS Guillardia theta (Cryptomonas phi).
 OC Nucleomorph.
 OC Eukaryota; Cryptophyta; Cryptomonadaceae; Guillardia.
 NCBI_TaxID=55529;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC MEDLINE-21223349; PubMed-11323671;
 RA Douglas S., Zauner S., Fraunholz M., Beaton M., Penny S., Deng L.T.,
 RA Wu X., Reith M., Cavalier-Smith T., Maier U.G.;
 RT "The highly reduced genome of an enslaved algal nucleus."
 RL Nature 410:1091-1096(2001).
 DR EMBL: AF165818; AAK39871.1;
 DR InterPro: IPR000795; EF_GTPbind.
 DR InterPro: IPR001810; F-box.
 DR Pfam: PF00009; GTP_EFTU; 1.
 DR PRINTS: PRO0315; ELONGATNCT.
 DR PROSITE: PS50181; FBOX; 1.
 KW GTP-binding; Nucleocapsid; Protein biosynthesis; Ribonucleoprotein.

SQ SEQUENCE 827 AA; 96891 MW; 4FAE10A0DB93D0A3 CRC64;

Query Match 11.4%; Score 74.5; DB 8; Length 827;
 Best Local Similarity 28.0%; Pred. No. 42;
 Matches 26; Conservative 16; Mismatches 30; Indels 21; Gaps 5;

QY 39 DARLTPEELERASLLQILPEMLGAERGI---ADSSNTINP-----RGNL 84
 DB 192 ELKMTPEVOK-RILQIDELNYLALHKYINKSVLSKKNINFPNLDNVCFSALSGWT 250
 QY 85 RKFDPSG---QDPNLLSH--LLARIKPYK 111
 DB 251 FNLNDFSGLYMISOPSTLSQKDLSEKRWMDK 283

RESULT 15

08VZC7 PRELIMINARY; PRT; 1202 AA.

AC 08VZC7; 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE AT5g45510/MC19_18.

OS Arabidopsis thaliana (Mouse-ear cress).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.
 NCBI_TaxID=3702;

OX NCBI_TaxID=3702;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Cheuk R., Chen H., Kim C.J., Koesema E., Meyers M.C., Banh J.,
 RA Bowser L., Carinci P., Chang E., Dale J.M., Goldsmith A.D.,
 RA Hayashizaki Y., Ishida J., Jones T., Kamiya A., Karlin-Neumann G.,
 RA Kawai J., Lam B., Lee J.W., Lin J., Miranda M., Narusaka M.,
 RA Nguyen M., Onodera C.S., Palm C.J., Quach H.L., Sakurai T., Satou M.,
 RA Seki M., Southwick A., Tang C.C., Toriumi M., Wu H.C., Yamada K.,
 RA Yamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis A.,
 RA Ecker J.R.;
 RT "Arabidopsis cDNA clones."
 RL Submitted (NOV-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AY065063; AAL57696.1;
 DR InterPro: IPR001611; LRR.
 DR Pfam: PF00560; LRR; 5.
 SQ SEQUENCE 1202 AA; 135815 MW; 15F84681326E9DA CRC64;

Query Match 11.4%; Score 74.5; DB 10; Length 1202;
 Best Local Similarity 28.6%; Pred. No. 67;
 Matches 26; Conservative 19; Mismatches 25; Indels 21; Gaps 5;

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 DB 398 SYKLNKDEE-RLIKETIEM-----VLSAERGN--PSDSESSSESPK-----R 437
 QY 90 FSGDPPNILLSHLARIKPKKRETPDCF 120
 DB 438 ASGENPILLAYKLFKTDGPKD-TLIDCFW 467

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DR PROSITE: P500217; SUGAR_TRANSPORT_2; UNKNOWN_1.
KW Hypothetical protein; Complete proteome.
SQ SEQUENCE 392 AA: 46122 MW: D5C3DC359083A350 CRC64;

Query Match
Best Local Similarity 24.1%; Score 77; DB 17; Length 392;
Matches 26; Conservative 25; Mismatches 31; Indels 26; Gaps 6;

QY 12 ICFNLPLSLPLDSREISFQLSAPBEDARLTPPELEFRASLLQILPEMGAERGDLIRKA 71
DB 274 IFFLKLRLKIRKQGRKLMFE---HESC---GQDLKRA-----MPLERGELIKDK 318

QY 72 DSSTNIFNPGNLRKRFOD-----FSGDPNILLSHLLARI-WKPYK 111
DB 319 NKHFVL---GDLRFAEQMADKIKMDTSKNKYLILHNSSVDMQHYK 363

RESULT 10
Q9YA06 PRELIMINARY: PRT: 433 AA.
AC Q9YA06:
DT 01-NOV-1999 (TRENBLrel. 12, Created)
DT 01-NOV-1999 (TRENBLrel. 12, Last sequence update)
DT 01-MAR-2002 (TRENBLrel. 20, Last annotation update)
DE Hypothetical protein APE1887.
GN APE1887.
OS Aeropyrum pernix.
OC Archaea; Ctenarchaeota; Thermoprotei; Desulfurococcaceae;
OC Desulfurococcaceae; Aeropyrum.
OX NCBI_Taxid=56636;
RP SEQUENCE FROM N.A.
RC STRAIN=K1;
RA MEDLINE=99310339; PubMed=10382966;
RA Kawarabayashi Y., Hino Y., Horikawa H., Yamazaki S., Halkawa Y.,
RA Jin-no K., Takehashi M., Sekine M., Baba S.-I., Anai A., Kosugi H.,
RA Hosoyama A., Fukui S., Nagai Y., Nishijima K., Nakazawa H.,
RA Takamiya M., Masuda S., Funahashi T., Tanaka T., Kudo Y.,
RA Yamazaki J., Kushiida N., Oguchi A., Aoki K.-I., Kubota K.,
RA Nakamura Y., Nomura N., Sako Y., Kikuchi H.;
RA "Complete genome sequence of an aerobic hyper-thermophilic
RT crenarchaeon, Aeropyrum pernix K1.";
RL DNA Res. 6:83-101(1999).
DR EMBL: AP000062; BAA80892.1;
KW Hypothetical protein; Complete proteome.
SQ SEQUENCE 433 AA: 46766 MW: 2F0EF190D5EDD5B2 CRC64;

Query Match
Best Local Similarity 29.5%; Score 76.5; DB 17; Length 433;
Matches 33; Conservative 13; Mismatches 29; Indels 37; Gaps 7;

QY 23 LDSREISFQLSAPBEDARL-----TPPELEFRASLLQILPEMGAERGDLIRKA 71
DB 171 LVSSR-----AMHEDLARLGLVELVDPIDFARYVAESVPEISGEVLRGEVLDLA 223

QY 72 DSSTNIFNPGNLRKRFODFSGDPNILLSHLLARIWKPY-KKREPPDCWKY 122
DB 224 DG-----EKKSLRYR-----AIKRMKSHGLDAVSPACWIFY 257

RESULT 11
Q9AW95 PRELIMINARY: PRT: 608 AA.
AC Q9AW95:
DT 01-JUN-2001 (TRENBLrel. 17, Created)
DT 01-JUN-2001 (TRENBLrel. 17, Last sequence update)
DT 01-JUN-2002 (TRENBLrel. 21, Last annotation update)
DE Anthranilate synthase alpha subunit (EC 4.1.3.27).
GN ASA.
OS Catharanthus roseus (Rosy periwinkle) (Madagascar periwinkle).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
OC Asteridae; euasterids I; Gentianales; Apocynaceae; Rauvolfioideae;

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OC Vincaea; Catharanthus.
OX NCBI_Taxid=4058;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=Q.DON; TISSUE=CELL SUSPENSION;
RA Bongaearts R.J.M., Meijer A.H., Hoge J.H.C., Verpoorte R.;
RT "Molecular cloning and characterization of a cDNA clone encoding the
RT alpha subunit of the enzyme anthranilate synthase from Catharanthus
RT roseus.";
RL Submitted (NOV-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL: AJ250008; CAC29060.1;
DR HSSP: Q06128; 10DL.
DR InterPro: IPR005256; Anthsynth.
DR InterPro: IPR000350; Chorismate_bind.
DR Pfam: PF00425; Chorismate_bind.
DR PRODOM: PD000779; Chorismate_bind.
DR PRINTS: PR00095; ANTSNTHASEI.
DR PRODOM: PD000779; Chorismate_bind.
DR TIGRPFAM: TIGR00564; trpE_most; 1.
KW lyase.
SQ SEQUENCE 608 AA: 68263 MW: DEE052CE5A1FC15E CRC64;

Query Match
Best Local Similarity 20.8%; Score 76; DB 10; Length 608;
Matches 35; Conservative 28; Mismatches 41; Indels 64; Gaps 9;

QY 2 YKLASCCLEFIFGLNPLSLPLD-----SREISFQLSAPH----- 37
DB 49 FRLACCSLHL-----LVLSPLDKCSAVSPSPFVDSAKFKVAHNGNLIPLRPIFS 104

QY 38 -----EDARLP-----EELE-----RASLQILPEMGAERGDLIRKA 71
DB 105 HLPVLAIVCLVKEDDREAPSFLEESVEPLKVSNGRVSVIGAQPTM-----ELVAK 158

QY 72 DSSTNIFNPGNLRKRFODFSGDPNILLSHLLARIWKPYKKRTPPCF 119
DB 159 NMVTYVDHROG--RVEOYE-EDPMVVPRIIMER-WKPORTTELPAPAF 202

RESULT 12
Q9L7B5 PRELIMINARY: PRT: 461 AA.
AC Q9L7B5:
DT 01-OCT-2000 (TRENBLrel. 15, Created)
DT 01-OCT-2000 (TRENBLrel. 15, Last sequence update)
DT 01-JUN-2002 (TRENBLrel. 21, Last annotation update)
DE Genomic DNA, chromosome 5, YAC clone:K14A3.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_Taxid=3702;
RN (1)
RP SEQUENCE FROM N.A.
RC STRAIN=COLUMBIA;
RA Kaneko T., Katoh T., Asamizu E., Sato S., Nakamura Y., Kotani H.,
RA Tabata S.;
RT "Structural analysis of Arabidopsis thaliana chromosome 5. XI.";
RT Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
DR EMBL: AB025609; BAA98109.1;
DR InterPro: IPR000679; ZnF_GATA.
DR Pfam: PF00320; GATA; 1.
DR SMART: SM00401; ZnF_GATA; 1.
SQ SEQUENCE 461 AA: 51682 MW: 49FD67D43F3D52DC CRC64;

Query Match
Best Local Similarity 26.6%; Score 75; DB 10; Length 461;
Matches 25; Conservative 13; Mismatches 32; Indels 24; Gaps 4;

QY 46 ELERASLLQILPEMGAERGDLIRKADST-----NIFNPGNLRKRFOD 90
DB 265 EEEQOKLMLKQLQVDSVDPDPSLRSMFESSQREKNSLFOQLVADGVFTNSYAKLEDI 324

QY 91 SG-----ODPNILLSHLLARIWKPYKKRTPDC 118

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RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodex A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Itoigawa C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Laslo P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Mishina N.V., Moberly C., Morris J., Moshnell A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA SVIRSKAS R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA GIBBS R.A., Myers E.W., Rubin G.M., Venter J.C.,
RT "The genome sequence of Drosophila melanogaster."
RL Science 287:2185-2195(2000).
CC -I- SIMILARITY: CONTAINS 1 SET DOMAIN.
DR EMBL: AF003704; AAF55041.2; -.
DR HSSP: P20393; 1A6Y.
DR FlyBase: FBgn0003862; ttx.
DR InterPro: IPR003889; FYRICH.C.
DR InterPro: IPR003888; FYRICH.N.
DR InterPro: IPR003616; PostSET.
DR InterPro: IPR001214; SET.
DR InterPro: IPR001965; ZnF_PHD.
DR InterPro: IPR001841; ZnF_Ring.
DR Pfam: PF00628; PHD; 3.
DR Pfam: PF00856; SET; 1.
DR SMART: SM00542; FYRICH; 1.
DR SMART: SM00541; FYRICH; 1.
DR SMART: SM00249; PHD; 4.
DR SMART: SM00508; PostSET; 1.
DR SMART: SM00184; RING; 3.
DR SMART: SM00317; SET; 1.
DR PROSITE: PSS0280; SET; 1.
DR SEQUENCE 3726 AA; 400095 MW; E3DDB8F062BD7796 CRC64;

Query Match 12.1%; Score 79; DB 5; Length 3726;
Best Local Similarity 30.0%; Pred. No. 95;
Matches 24; Conservative 12; Mismatches 28; Indels 16; Gaps 3;

OY 29 ISFQSLAPHEADARLPEELERASLLQILPEMLGAERGLIRKADSSNINPGNRKFKQ 88
DB 857 ISFQLPAH-----RSRLSAILPPGM---KGEAAREKSKSHELLSPGSLKFTS 902
OY 89 DFGGDPNILLSHLARIRK 108
DB 903 TASSSSPVSVASTRVK--WK 920

RESULT 8
O9XSI4 PRELIMINARY: PRT; 364 AA.
ID O9XSI4;
AC O9XSI4;
DT 01-NOV-1999 (TREMBLrel. 12, Created)
DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE MHC class I antigen (Fragment).
OS Aulonocara hansbaenschli.
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Perciformes; Labroidel;

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OC Cichlidae; Aulonocara.
OX NCBI_TaxID=27781;
RX [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=97293242; Pubmed=9148790;
RA Sato A., Klein D., Sultman H., Figueroa F., O'Huighin C., Klein J.;
RT "Class I MHC genes of cichlid fishes: identification, expression, and
RT polymorphism."
RL Immunogenetics 46:63-72(1997).
CC -I- FUNCTION: INVOLVED IN THE PRESENTATION OF FOREIGN ANTIGENS TO THE
CC IMMUNE SYSTEM (BY SIMILARITY).
CC -I- SUBUNIT: DIMER OF ALPHA CHAIN AND A BETA CHAIN (BETA-2-
CC MICROGLOBULIN) (BY SIMILARITY).
DR EMBL: AF038551; AAD37814.1; -.
DR InterPro: IPR003597; Ig_cl.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR001039; MHC_I.
DR Pfam: PF00047; Ig; 1.
DR Pfam: PF00129; MHC_I; 1.
DR PRINTS: PR01638; MHCCLASSI.
DR PRODOM: PD000050; MHC_I; 1.
DR SMART: SM00407; IGCL; 1.
KW Glycoprotein; Transmembrane.
FT NON_TER 364
SQ SEQUENCE 364 AA; 41428 MW; 051914ED23D3CB8F CRC64;

Query Match 11.8%; Score 77; DB 7; Length 364;
Best Local Similarity 29.1%; Pred. No. 8;
Matches 30; Conservative 21; Mismatches 36; Indels 16; Gaps 4;

OY 23 LLSREISFQSLAPHEADARLPEELERASLLQILPEMLGAERGLIRKADSSNINPGNRK 82
DB 248 ILRNNDETQMSYDLKLSPTPEEMER---YDVFHLSGE--DIYKLNQALIRTNPEG 302
OY 83 NLRKFDGSGDPNILLSHLA-----RMRKRYKRRKRET 115
DB 303 NLRKFDGSGDPNILLSHLA-----RMRKRYKRRKRET 344

RESULT 9
O30312 PRELIMINARY: PRT; 392 AA.
ID O30312;
AC O30312;
DT 01-JAN-1998 (TREMBLrel. 05, Created)
DT 01-JAN-1998 (TREMBLrel. 05, Last sequence update)
DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
DE Hypothetical protein AF2358.
GN AF2358.
OS Archaeoglobus fulgidus.
OC Archaea; Euryarchaeota; Archaeoglobi; Archaeoglobales;
OC Archaeoglobaceae; Archaeoglobus.
OX NCBI_TaxID=2234;
RX [1]
RP SEQUENCE FROM N.A.
RX STRAIN=VC-16 / DSM 4304 / ATCC 49558;
RX MEDLINE=98049343; Pubmed=9389475;
RA Klek H.-P., Clayton R.A., Tomb J.-F., White O., Nelson K.E.,
RA Ketchum K.A., Dodson R.J., Gwinn M., Hickey E.K., Peterson J.D.,
RA Richardson D.L., Kierlavage A.R., Graham D.E., Kyriades N.C.,
RA Fleischmann R.D., Quackenbush J., Lee N.H., Sutton G.G., Gill S.,
RA Kirkness E.F., Dougherty B.A., McKenney K., Adams M.D., Loftis B.,
RA Peterson S., Reich C.I., McNeil L.K., Badger J.H., Glodex A., Zhou L.,
RA Overbeek R., Cocayne J.D., Weidman J.F., McDonald L., Uitterback T.,
RA Cotton M.D., Spriggs T., Artlich P., Kaine B.P., Sykes S.M.,
RA Sadow P.W., D'Andrea K.P., Bowman C., Fujii C., Garland S.A.,
RA Mason T.M., Olsen G.J., Fraser C.M., Smith H.O., Woese C.R.,
RA Venter J.C.;
RT "The complete genome sequence of the hyperthermophilic, sulphate-
RT reducing archaeon Archaeoglobus fulgidus."
RL Nature 390:364-370(1997).
DR EMBL: AE001113; AAB91305.1; -.
DR TIGR: AF2358; -.
DR InterPro: IPR003662; sub_transporter.

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RP SEQUENCE FROM N.A.
RA Bevan M., Tertyn N., Ardiles W., Buysshaert C., Dasseville R.,
RA De Clerck R., De Keyser A., Neyt P., Rouze P., Van Den Daele H.,
RA Villalero R., Gielen J., Van Montagu M., Bancroft I., Mewes H.W.,
RA Rudd S., Lemcke K., Mayer K.F.X.
RA Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
RN 121
RP SEQUENCE FROM N.A.
RA EU Arabidopsis sequencing project;
RA Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
RL EMBL: AL162973; CAB86047.1;
DR InterPro: IPR001810; F-box.
DR Pfam: PF00646; F-box; 1.
DR SMART: SM00256; FBOX; 1.
DR PROSITE: PS0181; FBOX; 1.
DR Hypothetical protein.
KW SEQUENCE. 469 AA; 53949 MW; 4113E6184A447C8E CRC64;
SQ

Query Match 12.1%; Score 79.5; DB 10; Length 469;
Best Local Similarity 26.1%; Pred. No. 6.1;
Matches 35; Conservative 21; Mismatches 51; Indels 27; Gaps 5;

QY 4 LASCLLTGFLNPLLSPLDLSREISFQLSAPH---EDARLPEELERASLQ--ILP 57
DB 176 LIDCTMSDESFLEILSGCPILLESLSLFCMSLKYLNLSKRLTLRLTERISYIRAPMLS 235
QY 58 EMLGAEKGDILFRKADS-----STNIFNRCNLRKFQDFSGDNPILLS 100
DB 236 MQIVAPYIHYLRDSEAHCTFVDVSLTEANVDVSTFHR---TCYHDFDLDPHDLIV 292
QY 101 HLARIMKPKYKRE 114
DB 293 -MVGTMKTFQKVE 305

RESULT 6
Q9WZRL PRELIMINARY; PRT: 543 AA.
ID 09WZRL
AC 09WZRL
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
DE CG9993 protein.
GN CG9993.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OC NCBI_TaxID=7227;
OX 111
RN 111
RP SEQUENCE FROM N.A.
RA STRAIN-BERKELEY;
RA MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celinker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Mortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abell J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brotlier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cusum D.A., Danke C., Davenport L.B., Davies P.,
RA de Paulos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Kocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Foster C., Gabrielian A.E., Gary N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Hoslin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,

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RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Matile B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nussken D.R., Paclet J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shie B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissenbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RA "The genome sequence of Drosophila melanogaster."
RL Science 287:2185-2195(2000).
DR EMBL: AE003452; AAF46629.1;
DR HSSP: P08659; 11CI
DR FlyBase: FBgn0034553; CG9993.
DR InterPro: IPR000873; AMP-bind.
DR InterPro: IPR000508; SigPase.
DR Pfam: PF00501; AMP-binding; 1.
DR PROSITE: PS00761; SPASE_1_3; 1.
SQ SEQUENCE 543 AA; 60344 MW; AGA9B06E1457DCF9 CRC64;

Query Match 12.1%; Score 79.5; DB 5; Length 543;
Best Local Similarity 28.2%; Pred. No. 7.3;
Matches 40; Conservative 15; Mismatches 42; Indels 45; Gaps 9;

QY 23 LIDSRREISFQLSAPHEDARL--TPEELERASLQI-----LPEMLCA 62
DB 271 LVERHQVSFVLTPPHMALAKSPERQELAAKMQQVSFVCSGSKVPMGIWQLVELLCA 330
QY 63 ERGDIL-----RKADSTNIFNRCN---LRKFQ---DFSGOD--PNLLSHLARL-- 106
DB 331 NREFAVLXGLETGSGIKSNVGGPLGSGRLLRNQVRVDPHQCISLGP--QTGQILVRLNL 389
QY 107 -MKPY-----KKRETPDCFW 120
DB 390 RMGGYHNPQETQVTVTPDGKW 411

RESULT 7
Q9VFLL PRELIMINARY; PRT: 3726 AA.
ID 09VFLL
AC 09VFLL
DT 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
DE Trx protein.
GN TRX OR CG8651.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OC NCBI_TaxID=7227;
OX 111
RN 111
RP SEQUENCE FROM N.A.
RA STRAIN-BERKELEY;
RA MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celinker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Mortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abell J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brotlier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,

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DT 01-MAR-2002 (TREMblrel. 20, last annotation update)
DE Urotensin II transcript variant 1.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD.
RA Sugo T., Mori M.;
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD.
RA Mori M., Sugo T., Abe M., Shimomura Y., Kurihara M., Kitada C.,
RA Kikuchi K., Shintani Y., Kurokawa T., Onda H., Nishimura O.,
RA Fujino M.;
RT "Urotensin II is the endogenous ligand of a G-protein-coupled orphan
RT receptor, SENR (GPR14)."
RL Biochem. Biophys. Res. Commun. 265:123-129(1999).
DR EMBL: AB063245; BAB60888.1; -
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II.
DR PROSITE: PS00984; UROTENSIN_II; UNKNOWN_1.
SQ SEQUENCE 121 AA; 13580 MW; 656E4B01AF69101B CRC64;

Query Match
Best Local Similarity 52.3%; Score 342.5; DB 6; Length 121;
Matches 77; Conservative 12; Mismatches 31; Indels 5; Gaps 4;

QY 1 MYKLASCLLFGLFGLNPLSLPLDSREISFQLSAPHEDARLTPELEASLIQLIPEML 60
DB 1 MSKLVP-CLLLGCLGLFALPVPDSRKPELPFSAP-EDVRSAMDELBRASLIQLPELP 58
QY 61 GAERGDILRKADSTNIFNPGNLKRFQDFSGODPNILSLHLARIKPKKRETP-DCF 119
DB 59 GAEGEDLRADAGMDITYPGEMRK-AFSGODPNITLSHLARIKPKKRGPPSECF 116
QY 120 WKYCV 124
DB 117 WKYCV 121

RESULT 3
Q95K72 PRELIMINARY; PRT; 85 AA.
AC Q95K72;
DT 01-DEC-2001 (TREMblrel. 19, Created)
DT 01-DEC-2001 (TREMblrel. 19, last sequence update)
DT 01-MAR-2002 (TREMblrel. 20, last annotation update)
DE Urotensin II transcript variant 2.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD.
RA Sugo T., Mori M.;
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD.
RA Mori M., Sugo T., Abe M., Shimomura Y., Kurihara M., Kitada C.,
RA Kikuchi K., Shintani Y., Kurokawa T., Onda H., Nishimura O.,
RA Fujino M.;
RT "Urotensin II is the endogenous ligand of a G-protein-coupled orphan
RT receptor, SENR (GPR14)."
RL Biochem. Biophys. Res. Commun. 265:123-129(1999).
DR EMBL: AB063246; BAB60889.1; -

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DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II.
DR PROSITE: PS00984; UROTENSIN_II; UNKNOWN_1.
SQ SEQUENCE 85 AA; 9644 MW; F519CFEDFCBAA863 CRC64;

Query Match
Best Local Similarity 32.9%; Score 215.5; DB 6; Length 85;
Matches 53; Conservative 10; Mismatches 21; Indels 41; Gaps 4;

QY 1 MYKLASCLLFGLFGLNPLSLPLDSREISFQLSAPHEDARLTPELEASLIQLIPEML 60
DB 1 MSKLVP-CLLLGCLGLFALPVPDSRK----- 27
QY 61 GAERGDILRKADSTNIFNPGNLKRFQDFSGODPNILSLHLARIKPKKRETP-DCF 119
DB 28 -----EPLPFSADAGMDITYPGEMRK-AFSGODPNITLSHLARIKPKKRGPPSECF 80
QY 120 WKYCV 124
DB 81 WKYCV 85

RESULT 4
Q47972 PRELIMINARY; PRT; 140 AA.
AC Q47972;
DT 01-NOV-1996 (TREMblrel. 01, Created)
DT 01-NOV-1996 (TREMblrel. 01, last sequence update)
DT 01-OCT-2001 (TREMblrel. 18, last annotation update)
DE B1P protein.
GN B1P.
OS Halobacterium salinarum.
OC Halobaei; Euryarchaeota; Halobacteria; Halobacteriales;
OC Halobacteriaceae; Halobacterium.
OX NCBI_TaxID=2242;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=R1.
RA Gropp F., Gropp R., Betlach M.C.;
RT "The fourth gene in the hop gene cluster is co-regulated with the hop
RT gene."
RL Submitted (JUL-1993) to the EMBL/GenBank/DBJ databases.
DR EMBL: L22007; AAD15050.1; -
SQ SEQUENCE 140 AA; 15516 MW; 8C14F71C32867641 CRC64;

Query Match
Best Local Similarity 12.2%; Score 80; DB 1; Length 140;
Matches 21; Conservative 16; Mismatches 27; Indels 8; Gaps 1;

QY 43 TPPELEASLIQLIPEMLGAERGDILRKADSTNIFNPGNLKRFQDFSGODPNILSLHL 102
DB 63 TVEDIERYRQRLVQELTGADITTYRLSTRHVADLRGRVRL-----PTVIESV 114
QY 103 LARIWKPKKRE 114
DB 115 LAPIAKAYMKRE 126

RESULT 5
Q9LYZ2 PRELIMINARY; PRT; 469 AA.
AC Q9LYZ2;
DT 01-OCT-2000 (TREMblrel. 15, Created)
DT 01-OCT-2000 (TREMblrel. 15, last sequence update)
DT 01-JUN-2001 (TREMblrel. 17, last annotation update)
DE Hypothetical 53.9 kDa protein.
GN F9G14_240.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.
OX NCBI_TaxID=3702;
RN [1]

```

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:35:28 ; Search time 23.7946 Seconds
(without alignments)
1073.767 Million cell updates/sec

Title: US-09-831-907A-1
Perfect score: 655
Sequence: 1 MYKLASCCLLFTGFLNPLLS.....RIKKPYKKRTPDCFMKVCY 124

Scoring table:
BL0SUM62
Gap0 10.0 , Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: SPTRMBL_21:*
2: sp_archaea:*
3: sp_bacteria:*
4: sp_fungi:*
5: sp_human:*
6: sp_invertebrate:*
7: sp_mammal:*
8: sp_mhc:*
9: sp_organelle:*
10: sp_phage:*
11: sp_plant:*
12: sp_todent:*
13: sp_virus:*
14: sp_vertebrate:*
15: sp_unclassified:*
16: sp_virus:*
17: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	577	88.1	139	4	Q8TAU6
2	342.5	52.3	121	6	Q95J46
3	215.5	32.9	85	6	Q95K72
4	80	12.2	140	1	Q47972
5	79.5	12.1	469	10	Q9LYZ2
6	79.5	12.1	543	5	Q9W2R1
7	79	12.1	3726	5	Q9VEL1
8	77	11.8	364	7	Q9XS14
9	77	11.8	392	17	Q30312
10	76.5	11.7	433	17	Q9YAO6
11	76	11.6	608	10	Q9AW95
12	75	11.5	461	10	Q9L7B5
13	74.5	11.4	534	10	Q9ZWB6
14	74.5	11.4	827	8	Q98RS6
15	74.5	11.4	1202	10	Q9BZC7
16	74.5	11.4	1214	10	Q9FHT5

17	73	11.1	256	16	Q9Z7L3	Q9Z713 chlamydia p
18	73	11.1	814	4	Q9YSC7	Q9Y5C7 homo sapien
19	73	11.1	929	4	Q9Y5G1	Q9Y5G1 homo sapien
20	72.5	11.1	134	3	P79028	P79028 emeritcella
21	72.5	11.1	557	5	Q17948	Q17948 caenorhabd1
22	72.5	11.1	561	5	Q9U301	Q9U3G1 caenorhabd1
23	72	11.0	465	5	Q9GWS8	Q9GWS8 drosophila
24	72	11.0	465	5	Q9GTU4	Q9GTU4 drosophila
25	71.5	10.9	175	12	Q9YS19	Q9YS19 rotavirus a
26	71	10.8	381	5	Q19458	Q19458 caenorhabd1
27	70.5	10.8	287	10	Q9SBD4	Q9SBD4 arabidops1s
28	70.5	10.8	321	10	Q04258	Q04258 arabidops1s
29	70.5	10.8	323	10	Q9SMH4	Q9SMH4 arabidops1s
30	70.5	10.8	411	10	Q9SKG3	Q9SKG3 arabidops1s
31	70.5	10.8	411	10	Q9S8B3	Q9S8B3 arabidops1s
32	70.5	10.8	1094	12	P89680	P89680 tobacco str
33	70.5	10.8	1131	16	Q8YR43	Q8YR43 anabaena sp
34	70	10.7	495	10	Q8RWT1	Q8RWT1 arabidops1s
35	70	10.7	815	10	Q9FZ65	Q9FZ65 mycobacter1
36	69.5	10.6	334	16	Q53855	Q53855 mycobacter1
37	69.5	10.6	336	10	Q9SZ00	Q9SZ00 arabidops1s
38	69.5	10.6	359	3	Q42836	Q42836 sordaria ma
39	69.5	10.6	802	4	Q9UQ37	Q9UQ37 homo sapien
40	69.5	10.6	1262	4	Q9UQ40	Q9UQ40 homo sapien
41	69.5	10.6	1783	4	Q15038	Q15038 homo sapien
42	69.5	10.6	1791	4	Q60382	Q60382 homo sapien
43	69.5	10.6	2296	4	Q9UHA8	Q9UHA8 homo sapien
44	69.5	10.6	2752	4	Q9UQ35	Q9UQ35 homo sapien
45	69	10.5	82	11	Q9CTF4	Q9CTF4 mus musculu

ALIGNMENTS

RESULT 1
Q8TAU6 PRELIMINARY: PRT: 139 AA.
AC Q8TAU6: 01-JUN-2002 (TREMBlrel. 21, Created)
DT 01-JUN-2002 (TREMBlrel. 21, Last sequence update)
DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
DE Similar to utroslensin 2.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP TISSUE=PANCREAS;
RC Strussberg R.;
RA Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: BC025776; AAH25776.1; -
SQ SEQUENCE 139 AA: 16276 MW: 32DC52936D5BD6 CRC64:

Query Match 88.1%; Score 577; DB 4; Length 139;
Best Local Similarity 99.1%; Pred. No. 1,1e-52;
Matches 112; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFTGFLNPLLSPLLDSEISFQSLAPHEDRALPEELERASLQIPEML 60
DB 1 MYKLASCCLLFTGFLNPLLSPLLDSEISFQSLAPHEDRALPEELERASLQIPEML 60
QY 61 GARGDILRKADSSSTNFNPGMLRKQDFSGODPNILSHLLARIWKPKKR 113
DB 61 GARGDILRKADSSSTNFNPGMLRKQDFSGODPNILSHLLARIWKPKKR 113
RESULT 2
Q95J46 PRELIMINARY: PRT: 121 AA.
ID Q95J46:
AC Q95J46:
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)

Tue Mar 11 10:10:15 2003

Search completed: March 10, 2003, 17:39:19
Job time : 9.03784 secs

us-09-831-907a-1.rsp

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FT CHAIN 293 431 BONE MORPHOGENETIC PROTEIN 7.
FT DISULFID 330 396
FT DISULFID 359 428
FT DISULFID 363 430
FT DISULFID 395 395
FT CARBOHYD 187 187 INTERCHAIN.
FT CARBOHYD 302 302 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 321 321 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 372 372 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 431 AA; 49313 MW; 47A05E45C6815F8A CRC64;

Query Match 10.5%; Score 69; DB 1; Length 431;
Best Local Similarity 25.2%; Pred. No. 11;
Matches 34; Conservative 15; Mismatches 50; Indels 36; Gaps 5;

QY 22 PLIDSEISFOLSAPHDARLPPELE-----RASLQILPEMIG----- 61
D 149 PRYHREFRDLSKIPEGEAVTAEFRIYKDYRERFDNETFRISYQVQOEHLGRESL 208
QY 62 -----AERGDILRKADSTN--IFPRGNL---RKFOFSGODPILLSHLIART 106
D 209 FLIDSRFLMASEGWLVEFDITATSNHVVNPRNLGLQSVETLDQSIINPKLAGLIGR- 267
QY 107 WKPKKRETPDCFWK 121
D 268 HGPQNKOPFWVAFFK 282

RESULT 12
NCAP_RINDL
ID NCAP_RINDL STANDARD; PRT; 525 AA.
AC P37708;
DT 01-OCT-1994 (Rel. 30, Created)
DT 01-OCT-1994 (Rel. 30, Last sequence update)
DT 01-OCT-1994 (Rel. 30, Last annotation update)
DE Nucleocapsid protein.
GN N.
OS Rinderpest virus (strain L) (RDV).
OC Viruses; ssRNA negative-strand viruses; Mononegavirales;
OC Paramyxoviridae; Paramyxovirinae; Morbilliviruses.
OX NCBI_TaxID=11243;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=91205763; PubMed=2017875;
RA Kamata H., Tsukiyama K., Sugiyama M., Kamata Y., Yoshikawa Y.,
RA Yamanouchi K.;
RT "Nucleotide sequence of cDNA to the rinderpest virus mRNA encoding
RT the nucleocapsid protein."
RL Virus Genes 5:5-15(1991).
CC -1- FUNCTION: MOST ABUNDANT PROTEIN IN THE VIRION AND AN IMPORTANT
CC ELEMENT CONFERRING HELICAL SYMMETRY ON THE NUCLEOPROTEIN CORE AS
CC WELL AS INTERACTING WITH M PROTEIN DURING VIRION FORMATION.
CC -1- SIMILARITY: BELONGS TO THE PARAMYXOVIRUSES NUCLEOCAPSID FAMILY.
DR InterPro: IPR002021; Paramyx_ncap.
DR Pfam: PF00973; Paramyx_ncap; 1.
KW Nucleocapsid.
SQ SEQUENCE 525 AA; 58131 MW; 582E8ECA2AAC71F CRC64;

Query Match 10.5%; Score 69; DB 1; Length 525;
Best Local Similarity 26.6%; Pred. No. 14;
Matches 37; Conservative 20; Mismatches 56; Indels 26; Gaps 7;

QY 3 KLASCLLFGFLNPLSLPLDSREIS----FQLSAPHDARLPPELEERASLQILPE 58
D 50 RLIDCLVKNWG--DPDISCPKLGALISLILVESFGQLIQRIITDDPDISIKLIVEIOS 107
QY 59 -----MLAERGDLI--RKADSTNIFNPRG-----NLKRPQDSGODP---NILL 99
D 108 DKYOSGLTFASRKASMDDEADRFYTDPEPGEEROSYFENREIODIEVQDEGEFMIL 167
QY 100 SHLLARIWKPKRR-ETPD 117
D 168 ATILAQIWLILAKAVITPD 186

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RESULT 13
ID DGIA_DEIRA STANDARD; PRT; 373 AA.
AC Q9RVM1;
DT 15-JUN-2002 (Rel. 41, Created)
DT 15-JUN-2002 (Rel. 41, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Deoxyguanosinetriphosphate triphosphohydrolase-like protein 1.
GN DR1006.
OS Deinococcus radiodurans.
OC Bacteria; Thermus/Deinococcus group; Deinococci; Deinococcales;
OC Deinococcaceae; Deinococcus.
OX NCBI_TaxID=1299;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=RL;
RX MEDLINE=20036896; PubMed=10567266;
RA White O., Eisen J.A., Heidelberg J.F., Hickey E.K., Peterson J.D.,
RA Dodson R.J., Haft D.H., Gwinn M.L., Nelson W.C., Richardson D.L.,
RA Moffat K.S., Qin H., Jiang L., Pamphile W., Crosby M., Shen M.,
RA Vamathevan J.J., Lam P., McDonald L., Utterback T., Zaleski C.,
RA Makarova K.S., Aravind L., Daly M.J., Minton K.W., Fleischmann R.D.,
RA Ketchum K.A., Nelson K.E., Salzberg S., Smith H.O., Venter J.C.,
RA Fraser C.M.;
RT "Genome sequence of the radioresistant bacterium Deinococcus
RT radiodurans RL."
RL Science 286:1571-1577(1999).
CC -1- SIMILARITY: BELONGS TO THE DGPASE FAMILY. SUBFAMILY 2.
CC CC
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CC CC
DR EMBL: AB001952; AAF10581.1; -
DR TIGR: DR1006; -
DR InterPro: IPR002819; HD.
DR InterPro: IPR003607; ME_Plpase_HDC.
DR Pfam: PF01966; HD; 1.
DR SMART: SM00471; HDC; 1.
KW Hypothetical protein; Hydrolase; Complete proteome.
SQ SEQUENCE 373 AA; 41372 MW; 21DOA09B9EBC6571 CRC64;

Query Match 10.5%; Score 68.5; DB 1; Length 373;
Best Local Similarity 27.1%; Pred. No. 11;
Matches 32; Conservative 16; Mismatches 31; Indels 39; Gaps 6;

QY 13 GLFNP--LSTPLIDSEISFOLSAPHDARLPPELEERASLQILPEMIGARCDILRK 70
D 209 GLHPELELEPLM--REL-----QERSGVTSQRPSSADLTLORELLGMLIGDITRS 259
QY 71 AD---SSTNIENP-----RGNLRKFOFSGODPILLSHLIARIWK 108
D 260 SDAIAIASGASPDVAQAHARLVTVSPALRGHLRGAGDE-----LIERLYRMQ 309

RESULT 14
GNTP_ZYMMO
ID GNTP_ZYMMO STANDARD; PRT; 451 AA.
AC Q9Z670;
DT 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Glucanate permease.
GN GNTP.
OS Zymomonas mobilis.
OC Bacteria; Proteobacteria; alpha subdivision; Sphingomonadaceae;
OC Zymomonas.

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RL Nature 417:141-147(2002).
CC -1- CATALYTIC ACTIVITY: (S)-malate + NAD(+) -> oxaloacetate + NADH.
CC -1- SIMILARITY: BELONGS TO THE LDH FAMILY. MDH SUBFAMILY.
CC -----
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CC -----
DR EMBL: AL389898: CAB97430.1; -.
DR HSPSP: P10584; 1BDX.
DR InterPro: IPR001252; Mdh.
DR InterPro: IPR001236; 1dh.
DR Pfam: PF00056; 1dh; 1.
DR Pfam: PF02866; 1dh; C; 1.
DR ProDom: PD003052; Mdh; 1.
DR ProSITE: PS00068; MDH; 1.
DR Oxidoreductase: Tricarboxylic acid cycle; NAD; Complete proteome.
KW ACT_SITE 160 160 PROTON-RELAY (BY SIMILARITY).
FT BINDING 163 163 SUBSTRATE CARBOXYL GROUP (BY SIMILARITY).
FT ACT_SITE 188 188 PROTON-RELAY (BY SIMILARITY).
SQ SEQUENCE 329 AA: 34643 MW: 765374769CCCAF4 CRC64:

Query Match 10.7%; Score 70; DB 1; Length 329;
Best Local Similarity 27.5%; Pred. No. 64;
Matches 22; Conservative 15; Mismatches 31; Indels 12; Gaps 3;

QY 20 SUPPLDSEISFQLSAPHEDARLTPELEERASLLQILPEMLGAEKDIKRAKSDSTNIFN 79
DB 62 APFLLOGEIT-----DDPNVAFDGANVALLVGARPRKGMERDLDL---EANGIKRK 111
QY 80 PRCNLKRFQDFSGQDPNILL 99
DB 112 PGC--KAINDHADIKLV 129

RESULT 11
BMP7_HUMAN
ID BMP7_HUMAN STANDARD; PRT; 431 AA.
AC P18075; Q9NTQ7; Q9H512;
DT 01-NOV-1990 (rel. 16, Created)
DT 01-NOV-1990 (rel. 16, Last sequence update)
DT 15-JUN-2002 (rel. 41, Last annotation update)
DE Bone morphogenetic protein 7 precursor (BMP-7) (Osteogenic protein 1)
DE (OP-1).
GN BMP7 OR OP1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP TISSUE=Placenta; AND PARTIAL SEQUENCE.
RC MEDLINE=90291971; PubMed=2357959;
RA Oezkaynak E., Rueger D.C., Drier E.A., Corbett C., Ridge R.J.,
RA Sampath T.K., Oppermann H.;
RT "OP-1 cDNA encodes an osteogenic protein in the TGF-beta family.";
RL EMBL J. 9:2085-2093(1990).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=91088608; PubMed=2263636;
RA Celeste A.J., Iannuzzi J.A., Taylor R.C., Hewick R.M., Rosen V.,
RA Wang E.A., Wozney J.M.;
RT "Identification of transforming growth factor beta family members
RT present in bone-inductive protein purified from bovine bone.";
RL Proc. Natl. Acad. Sci. U.S.A. 87:9843-9847(1990).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=21638749; PubMed=11780052;
RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R.,

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RA Jones M., Stavrides G., Almeida J.P., Babbage A.K., Baguley C.L.,
RA Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M.,
RA Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J.,
RA Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P.,
RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,
RA Coulson A., Coville G.J., Deaman R., Dhumi P.D., Dunn M.,
RA Ellington A.G., Frankland J.A., Fraser A., French L., Garner P.,
RA Griffiths D.V., Griffiths C., Griffiths M.N.D., Gilliam R., Hall R.E.,
RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
RA Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson C.M., Johnson D.,
RA Kay M.P., Kimberley A.M., King A., Knightes A., Laird G.K., Lawlor S.,
RA Leivasalino M.H., Leverina M.A., Lloyd C., Lloyd D.M., Lovell J.D.,
RA Marsh V.L., Martin S.L., McConnachie L.J., McLeay K., McMurtry A.A.,
RA Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T.,
RA Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I.,
RA Phillimore B.J.C.T., Prithalingham S.R., Plumb R.W., Ramsay H.,
RA Rice C.M., Ross M.T., Scott C.E., Sehra H.K., Showkeen R., Sims S.,
RA Skuce C.D., Smith M.L., Soderlund C., Stewart C.A., Sulston J.E.,
RA Swann R.M., Sycamore N., Taylor R., Tee L., Thomas D.W., Thorpe A.,
RA Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M.,
RA Whitehead S.L., Whitaker P., Willey D.L., Williams L., Williams S.A.,
RA Wilming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,
RA Rogers J.;
RT "The DNA sequence and comparative analysis of human chromosome 20.";
RL Nature 414:865-871(2001).
RN [4]
RP X-RAY CRYSTALLOGRAPHY (2.8 ANGSTROMS) OF 293-431.
RX MEDLINE=96149402; PubMed=8570652;
RA Griffith D.L., Keck P.C., Sampath T.K., Rueger D.C., Carlson W.D.;
RT "Three-dimensional structure of recombinant human osteogenic protein
RT 1: structural paradigm for the transforming growth factor beta
RT superfamily.";
RL Proc. Natl. Acad. Sci. U.S.A. 93:878-883(1996).
CC -1- FUNCTION: INDUCES CARTILAGE AND BONE FORMATION. MAY BE THE
CC OSTEOINDUCTIVE FACTOR RESPONSIBLE FOR THE PHENOMENON OF
CC EPITHELIAL OSTEOGENESIS. PLAYS A ROLE IN CALCIUM REGULATION
CC AND BONE HOMEOSTASIS.
CC -1- SUBUNIT: HOMODIMER; DISULFIDE-LINKED.
CC -1- TISSUE SPECIFICITY: EXPRESSED IN THE KIDNEYS AND BLADDER. LOWER
CC LEVELS SEEN IN THE BRAIN.
CC -1- SIMILARITY: BELONGS TO THE TGF-BETA FAMILY.
CC -----
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DR EMBL: X51801; CAA36100.1; -.
DR EMBL: M60316; AAA36738.1; -.
DR EMBL: AL122058; CAB90273.1; -.
DR EMBL: AL157414; CAC08434.1; -.
DR PIR: S10529; S10529.
DR PIR: C39263; C39263.
DR PDB: 1BMP; 23-JUL-97.
DR Gene: HGNC:1074; BMP7.
DR MIM: 112267; -.
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DR Pfam: PF00019; TGF-beta; 2.
DR Pfam: PF00688; TGFb-Propeptide; 2.
DR PRINTS: PR00438; GF_CYSKNOT.
DR ProDom: PD000357; TGFb; 1.
DR SMART: SM00204; TGFb; 1.
DR ProSITE: PS00250; TGF_beta_1; 1.
KW Signal; Growth factor; Cytokine; Bone; Cartilage; Glycoprotein;
KW 3D-structure.
FT SIGNAL 1 29 POTENTIAL.
FT PROPEP 30 292 POTENTIAL.

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RT "Contrasting molecular population genetics of four hexokinases in
RT Drosophila melanogaster and Drosophila simulans."
RT Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
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RL Deobagkar D.D., Kulkarni G.V., Deobagkar D.N.;
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RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yen K.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster."
RT Science 287:2165-2195(2000).
CC -|- CATALYTIC ACTIVITY: ATP + D-hexose = ADP + D-hexose 6-phosphate.
CC -|- PATHWAY: FIRST STEP OF SEVERAL METABOLIC PATHWAYS.
CC -|- SIMILARITY: BELONGS TO THE HEXOKINASE FAMILY.
CC -|- CAUTION: Ref.3 sequence differs from that shown due to erroneous
CC gene model prediction.
CC -----
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DR EMBL: AF257934; AAG23579.1; -
DR EMBL: AF257935; AAG23581.1; -
DR EMBL: AF257936; AAG23583.1; -
DR EMBL: AF257937; AAG23585.1; -
DR EMBL: AF257938; AAG23587.1; -
DR EMBL: AF257939; AAG23589.1; -
DR EMBL: AF257940; AAG23591.1; -
DR EMBL: AF257941; AAG23593.1; -
DR EMBL: AF257942; AAG23595.1; -
DR EMBL: AF257943; AAG23597.1; -
DR EMBL: AF257944; AAG23599.1; -
DR EMBL: AF257945; AAG23601.1; -
DR EMBL: AF257946; AAG23603.1; -
DR EMBL: AF257947; AAG23605.1; -
DR EMBL: AF257948; AAG23607.1; -
DR EMBL: AF257949; AAG23609.1; -
DR EMBL: AF257950; AAG23611.1; -
DR EMBL: AF257951; AAG23613.1; -
DR EMBL: AF257952; AAG23615.1; -
DR EMBL: AF257953; AAG23617.1; -
DR EMBL: AF257954; AAG23619.1; -
DR EMBL: AF257955; AAG23621.1; -
DR EMBL: AF257956; AAG23623.1; -
DR EMBL: AF257957; AAG23625.1; -
DR EMBL: AF257958; AAG23627.1; -
DR EMBL: AF257959; AAG23629.1; -
DR EMBL: AF257960; AAG23631.1; -
DR EMBL: AF257961; AAG23633.1; -
DR EMBL: AF257962; AAG23635.1; -
DR EMBL: AF257963; AAG23637.1; -
DR EMBL: AF257964; AAG23639.1; -
DR EMBL: AF257965; AAG23641.1; -
DR EMBL: AF257966; AAG23643.1; -
DR EMBL: AF257967; AAG23645.1; -
DR EMBL: AF257968; AAG23647.1; -
DR EMBL: AF257969; AAG23649.1; -
DR EMBL: AF257970; AAG23651.1; -
DR EMBL: AF257971; AAG23653.1; -
DR EMBL: AF257972; AAG23655.1; -
DR EMBL: AF257973; AAG23657.1; -
DR EMBL: AF257974; AAG23659.1; -
DR EMBL: AF257975; AAG23661.1; -
DR EMBL: AF257976; AAG23663.1; -
DR EMBL: AF257977; AAG23665.1; -
DR EMBL: AF257978; AAG23667.1; -
DR EMBL: AF257979; AAG23669.1; -
DR EMBL: AF257980; AAG23671.1; -
DR EMBL: AF257981; AAG23673.1; -
DR EMBL: AF257982; AAG23675.1; -
DR EMBL: AF257983; AAG23677.1; -
DR EMBL: AF257984; AAG23679.1; -
DR EMBL: AF257985; AAG23681.1; -
DR EMBL: AF257986; AAG23

```

DR HSP; P20393; 1A6Y.
DR TRANSFAC; T00850; -.
DR FLYBASE; FBgn0003862; trx.
DR InterPro: IPR003889; Flyrich_C.
DR InterPro: IPR003888; Flyrich_N.
DR InterPro: IPR003616; PostSET.
DR InterPro: IPR001214; SET.
DR InterPro: IPR001965; Znf-PHD.
DR InterPro: IPR001841; Znf_ring.
DR Pfam; PF00628; PHD; 3.
DR Pfam; PF00856; SET; 1.
DR SMART; SM00542; FYRC; 1.
DR SMART; SM00541; FYRN; 1.
DR SMART; SM00249; PHD; 4.
DR SMART; SM00508; PostSET; 1.
DR SMART; SM00184; RING; 3.
DR SMART; SM00317; SET; 1.
DR PROSITE; PS00280; SET; 1.
DR PROSITE; PS01359; ZF-PHD_1; 4.
DR PROSITE; PS0016; ZF-PHD_2; 3.
DR Transcription regulation; Zinc-finger; Metal-binding; DNA-binding;
DR Nuclear protein; Developmental protein; Activator;
KM Alternative splicing.
KW ZN_FING 1266 1347 PHD-TYPE 1.
FT ZN_FING 1348 1393 PHD-TYPE 2.
FT ZN_FING 1421 1482 PHD-TYPE 3.
FT ZN_FING 1793 1793 PHD-TYPE 4 (ATYPICAL).
FT ZN_FING 1794 1844 PHD-TYPE 5 (ATYPICAL).
FT DOMAIN 3599 3708 SET.
FT DOMAIN 512 516 POLY-SER.
FT DOMAIN 565 570 POLY-ASP.
FT DOMAIN 661 664 POLY-SER.
FT DOMAIN 905 910 POLY-SER.
FT DOMAIN 1576 1582 POLY-GLN.
FT DOMAIN 2298 3027 GLN-RICH.
FT DOMAIN 3032 3040 POLY-SER.
FT DOMAIN 3181 3184 POLY-GLN.
FT DOMAIN 3220 3225 POLY-GLU.
FT VARSPLIC 1 368 MISSING (IN SHORT ISOFORM).
FT CONFLICT 2025 P -> PMLTSPKFLGSLTHGSLMLLLGVVRLKQGG
FT CONFLICT 2341 R -> S (IN REF. 1).
FT CONFLICT 2392 G -> S (IN REF. 1).
SQ SEQUENCE 3726 AA; 400575 MW; D2756E50763D1CF5 CRC64;

Query Match
Best Local Similarity 12.1%; Score 79; DB 1; Length 3726;
Matches 24; Conservative 12; Mismatches 28; Indels 16; Gaps 3;

OY 29 ISFQLSAPHEHARLTPEELERASLTQILPEMLGAERGDLIRKADSSTNIFNPRGNLRKFO 88
DB 857 ISFQLPAH-----RSRLSAILPRGM---RGEAAAREKSAELLSTPTGSLRFTS 902
OY 89 DEFGODPNILLSHLARIWK 108
DB 903 TASSSSPSVASTSVK--WK 920

RESULT 8
ID IOD3_XENLA STANDARD; PRT; 271 AA.
AC P49899;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Type III Iodothyronine deiodinase (EC 3.8.1.4) (Type-III
5'-deiodinase) (DIOIII) (Type 3 DI) (5DIII) (XL-15).
GN DIO3 OR TYD13 OR ITD13.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae;
OC Xenopodinae; Xenopus.
NCBI_TaxID=8355;

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RN [1]
SEQUENCE FROM N.A.
RX MEDLINE=94329597; PubMed=8052658;
RA St Germain D.L., Schwartzman R.A., Croteau W., Kanamori A., Wang Z.,
RA Brown D.D., Galton V.A.;
RT "A thyroid hormone-regulated gene in Xenopus laevis encodes a type
III Iodothyronine 5'-deiodinase."
RL Proc. Natl. Acad. Sci. U.S.A. 91:7767-7771(1994).
RN [2]
ERRATUM.
RX MEDLINE=95062251; PubMed=7972049;
RA St Germain D.L., Schwartzman R.A., Croteau W., Kanamori A., Wang Z.,
RA Brown D.D., Galton V.A.;
RL Proc. Natl. Acad. Sci. U.S.A. 91:11282-11282(1994).
CC -I- FUNCTION: RESPONSIBLE FOR THE DEIODINATION OF T4 (3,5,3',5'-
TETRAIODOTHYRONINE) INTO T3 (3,5,3'-TRIODOTHYRONINE) AND OF T3
INTO T2 (3,3'-DIODOTHYRONINE). MAY PLAY A PROTECTIVE ROLE IN
SELECTED TISSUES BY PREVENTING THEIR EXPOSURE TO INAPPROPRIATELY
TIMED OR EXCESSIVE LEVELS OF THYROID HORMONE.
CC -I- CATALYTIC ACTIVITY: L-thyronine + H(2) -> 3,5,3'-L-triiodo-L-
thyronine + Iodide + H(+).
CC -I- COFACTOR: SELENOCYSTEINE. THE ACTIVE-SITE SELENOCYSTEINE IS
ENCODED BY THE OPAL CODON, UGA.
CC -I- SIMILARITY: BELONGS TO THE IODOOTHYRONINE DEIODINASE FAMILY.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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or send an email to license@sib-sib.ch).
DR EMBL; L28111; AAA49971.2; ALT_SEQ.
DR InterPro; IPR000643; T4_deiodinase.
DR Pfam; PF00837; T4_deiodinase; 1.
DR PROSITE; PS01205; T4_DEIODINASE; 1.
KW Oxidoreductase; Hydrolase; Selenium; Selenocysteine.
FT SE_CYS 132 132
FT MUTAGEN 132 132 C->L. LOSS OF ENZYME ACTIVITY.
SQ SEQUENCE 271 AA; 30252 MW; 64CFA26D9E9B51D CRC64;

Query Match
Best Local Similarity 10.9%; Score 71.5; DB 1; Length 271;
Matches 33; Conservative 17; Mismatches 43; Indels 21; Gaps 5;

OY 3 KLASCCLEIFGLNPLSLPLD-----SREISFQLSAPHEHARLTPEELERAS 51
DB 15 GVAACCLLPRLGLGMLMLDLPFCIRRVLLTAREES---TAHEHDPPLCVSDSNRMC 71
OY 52 LIQILPEMLGAERGDLIRKAD-----SSTNIFNPRG-NLRKQDS-GODPNIL 98
DB 72 TVESLRVAVHGGKLDYFKSAHLCGSAFNTEVVMLEGRILCKILDFSGKRLPV 125

RESULT 9
ID HXK1_DROME STANDARD; PRT; 465 AA.
AC Q9NET9; Q9VBF1;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Hexokinase type 1 (EC 2.7.1.1).
GN HEX-T1 OR HEX OR CG5443.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Hexapoda;
OC Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
OC Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
SEQUENCE FROM N.A.
RP STRAIN=Various strains;
RC Duvernelli D.D., Eanes W.F.;

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Db      61 AAVEXSPLL-----SRENKVP-----GQIPKALRELL--LEKPYRLIPPSGL 103
OY      111 -----KKRETPDCFWKCYV 124
          1: |||||
Db      104 WGSRRQFRKRGAGADCFWKYCV 125

RESULT 6
UR2G_CYPCA STANDARD; PRT; 125 AA.
ID UR2G_CYPCA
AC P06580;
DT 01-JAN-1988 (Rel. 06, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DE 16-OCT-2001 (Rel. 40, Last annotation update)
DE UII gamma precursor [contains: Urophysin gamma; Urotensin II-gamma].
OS Cyprinus carpio (Common carp).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Cyprinus.
OX NCBI_TaxID=7962;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=86307061; PubMed=2427672;
RA Ohnaka S., Ishida I., Ichikawa T., Deguchi T.;
RT "Cloning and sequence analysis of cDNAs encoding precursors of
  urotensin II-alpha and -gamma."
RL J. Neurosci. 6:2730-2735(1986).
RN [2]
RP SEQUENCE OF 114-125.
RA Munekata E., Ohkaki T., Ichikawa T., McMaster D., Lederis K.;
RL Proceedings of the 7th american peptide symposium, pp.69-72,
  Pierce Chemical Co., Rockford IL, (1981).
CC -1- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
  SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
  CORTICOTROPIN-RELEASING FACTOR. THE NONHORMONAL PORTION OF THIS
  PRECURSOR MAY BE A UROTENSIN BINDING PROTEIN. UROPHYSIN.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC -----
CC CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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  or send an email to license@sib-sib.ch).
CC -----
DR EMBL: M14088; AAA49216.1; -
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II.1.
DR PROSITE: PS00984; UROTENSIN_II.1.
KW Hormone; Cleavage on pair of basic residues; signal.
FT SIGNAL 1 21
FT CHAIN 22 106 UROPHYSIN GAMMA (POTENTIAL).
FT PEPTIDE 114 125 UROTENSIN II-GAMMA.
FT DISULFID 119 124
SQ SEQUENCE 125 AA; 13866 MW; E1587DCFC8CB674D CRC64;

Query Match 13.4%; Score 87.5; DB 1; Length 125;
Best Local Similarity 25.7%; Pred. No. 0.03;
Matches 36; Conservative 19; Mismatches 46; Indels 39; Gaps 7;
OY 4 LASCLLFGELNPLSLPLDSREISFQLSAP---HEDARLPELEASLIQLIPEML 60
          |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 6 LUSCVLLLS-CSHLAHVDYTDADTY--SGPDSVEEAGVNPDPFSVDLNEHLQRA 62
OY 61 GAERGDIILKADSTNIENPGRNLRKFDGSGDPIILSHLLARIWKPY----- 110
          |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 63 VAGYSPLF-----SQENIKVP-----GQIPKALRELL--LEKPYRLIPPSGL 105
OY 111 -----KKRETPDCFWKCYV 124
          1: |||||
Db 106 SRRQFRKRGAGADCFWKYCV 125

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RESULT 7
TRX_DROME STANDARD; PRT; 3726 AA.
ID TRX_DROME
AC P20659; Q27255; Q27327;
DT 01-FEB-1991 (Rel. 17, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Trithorax protein.
GN TRX.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Hexapoda;
OC Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
OC Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=90192757; PubMed=2107543;
RA Mazo A.M., Huang D.-H., Mozer B.A., Dawid I.B.;
RT "The trithorax gene, a trans-acting regulator of the bithorax complex
  in Drosophila, encodes a protein with zinc-binding domains."
RL Proc. Natl. Acad. Sci. U.S.A. 87:2112-2116(1990).
RN [2]
RP SEQUENCE FROM N.A.; ALTERNATIVE SPLICING, AND CHARACTERIZATION.
RX MEDLINE=95009521; PubMed=792496;
RA Sedkov Y., Tillib S., Mizrokh L., Mazo A.;
RT "The bithorax complex is regulated by trithorax earlier during
  Drosophila embryogenesis than is the Antennapedia complex, correlating
  with a bithorax-like expression pattern of distinct early trithorax
  transcripts."
RL Development 120:1907-1917(1994).
RN [3]
RP SEQUENCE FROM N.A.
RX STRAIN-Oregon-R;
RL MEDLINE=96100387; PubMed=8555104;
RA Tillib S., Sedkov Y., Mizrokh L., Mazo A.;
RT "Conservation of structure and expression of the trithorax gene
  between Drosophila virilis and Drosophila melanogaster."
RL Mech. Dev. 53:113-122(1995).
RN [4]
RP CHARACTERIZATION.
RX MEDLINE=95047388; PubMed=7958911;
RA Kuzin B., Tillib S., Sedkov Y., Mizrokh L., Mazo A.;
RT "The Drosophila trithorax gene encodes a chromosomal protein and
  directly regulates the region-specific homeotic gene fork head."
RL Genes Dev. 8:2478-2490(1994).
CC -1- FUNCTION: FUNCTIONS IN SEGMENT DETERMINATION THROUGH INTERACTION
  WITH GENES OF BITHORAX (BX-C) AND ANTENNAPEDIA (ANT-X) COMPLEXES.
  IT CAN BEHAVE AS AN ACTIVATOR OF BX-C.
CC -1- SUBCELLULAR LOCATION: Nuclear.
CC -1- ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG FORM (SHOWN HERE) AND A
  SHORT FORM; ARE PRODUCED BY ALTERNATIVE SPLICING.
CC -1- MISCELLANEOUS: THIS PROTEIN HAS BEEN EXPERIMENTALLY SHOWN TO BIND
  ZINC.
CC -1- SIMILARITY: BELONGS TO THE TRANSCRIPTION FACTOR TRITHORAX FAMILY.
CC -1- SIMILARITY: CONTAINS 1 SET DOMAIN.
CC -1- SIMILARITY: CONTAINS 5 PHD-TYPE ZINC FINGERS.
CC -----
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  or send an email to license@sib-sib.ch).
CC -----
DR EMBL: M31617; AAA29025.1; -
DR EMBL: Z50152; CAA90514.1; -
DR EMBL: Z50152; CAA90513.1; -
DR EMBL: Z31725; CAA83516.1; -
DR EMBL: Z31725; CAA83515.1; -
DR PIR: A35085; A35085.

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DR MM: 604097;
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II: 1.
DR PROSITE: PS00984; UROTENSIN_II: 1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 20
FT PROPEP 21 110
FT PEPTIDE 114 124
FT DISULFID 118 123
FT CONFLICT 1 19
FT CONFLICT 24 27
FT CONFLICT 124 AA: 14295 MW: C7ASFCTFEED00D312 CRC64;
SQ SEQUENCE

Query Match
Best Local Similarity 100.0%; Score 655; DB 1; Length 124;
Matches 124; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYKLASCLLFIFGLNPLSLPLDSREISFQLSAPHEARLTPPELERASLQILPEML 60
DB 1 MYKLASCLLFIFGLNPLSLPLDSREISFQLSAPHEARLTPPELERASLQILPEML 60
QY 61 GAERGDLIRKADSSSTNFNRGNLRKFQDFSGODPNILSHLARIRKPKRRETPDCFW 120
DB 61 GAERGDLIRKADSSSTNFNRGNLRKFQDFSGODPNILSHLARIRKPKRRETPDCFW 120
QY 121 KYCV 124
DB 121 KYCV 124

RESULT 2
UR2_MOUSE
ID UR2_MOUSE STANDARD; PRT: 123 AA.
AC 09QZ03;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Urotensin II precursor (U-II) (UII).
GN UTS2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-Spinal cord;
RX MEDLINE=99416011; PubMed=10486557;
RA Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lohmann I.;
RT "Cloning, sequence analysis and tissue distribution of the mouse and
RT rat urotensin II precursors."
RL FEBS Lett. 457:28-32(1999).
CC -1- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: BRAIN-SPECIFIC. PREDOMINANTLY EXPRESSED IN
CC MOTONEURONS OF THE BRAINSTEM AND SPINAL CORD.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: AF172175; AAD5567.1; -.
CC MGD: MGI:1346329; Uts2.
CC InterPro: IPR001483; Urotensin_II.
CC Pfam: PF02083; Urotensin_II: 1.
CC PROSITE: PS00984; UROTENSIN_II: 1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 20
FT CONFLICT 123 AA: 13614 MW: E4FLA8E124AFL1EA CRC64;
SQ SEQUENCE
```

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FT PROPEP 21 104
FT PEPTIDE 110 123
FT DISULFID 117 122
FT CONFLICT 123 AA: 13625 MW: F96486195137F7F4 CRC64;
SQ SEQUENCE

Query Match
Best Local Similarity 43.7%; Score 286.5; DB 1; Length 123;
Matches 62; Conservative 19; Mismatches 41; Indels 3; Gaps 2;

QY 1 MYKLASCLLFIFGLNPLSLPLDSREISFQLSAPHEARLTPPELERASLQILPEML 60
DB 1 MDRVPCCLLFIFGLNPLSLPLDSTGERTLQPLVEEDALRALPELERNALLQTLQRTM 60
QY 61 GAERGDLIRKADSSSTNFNRGNLRKFQDFSGODPNILSHLARIRKPKRRETPDCFW 119
DB 61 GTEGEGSPGAGPSTETPTPRGSMRK--AFAGNSNTVLSRLARTKOKHOGKAPECF 118
QY 120 WKYCV 124
DB 119 WKYCI 123

RESULT 3
UR2_RAT
ID UR2_RAT STANDARD; PRT: 123 AA.
AC 09QZ04;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II precursor (U-II) (UII).
GN UTS2.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-Spinal cord;
RX MEDLINE=99416011; PubMed=10486557;
RA Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lohmann I.;
RT "Cloning, sequence analysis and tissue distribution of the mouse and
RT rat urotensin II precursors."
RL FEBS Lett. 457:28-32(1999).
CC -1- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: BRAIN-SPECIFIC.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC -----
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CC -----
CC EMBL: AF172174; AAD5576.1; -.
CC DR InterPro: IPR001483; Urotensin_II.
CC DR Pfam: PF02083; Urotensin_II: 1.
CC PROSITE: PS00984; UROTENSIN_II: 1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 20
FT PROPEP 21 104
FT PEPTIDE 110 123
FT DISULFID 117 122
FT CONFLICT 123 AA: 13614 MW: E4FLA8E124AFL1EA CRC64;
SQ SEQUENCE

Query Match
Best Local Similarity 43.1%; Score 282.5; DB 1; Length 123;
Matches 62; Conservative 17; Mismatches 43; Indels 3; Gaps 2;

QY 1 MYKLASCLLFIFGLNPLSLPLDSREISFQLSAPHEARLTPPELERASLQILPEML 60
DB 1 MYKLASCLLFIFGLNPLSLPLDSREISFQLSAPHEARLTPPELERASLQILPEML 60
```

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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:26:37 ; Search time 7.03784 Seconds

(without alignments)
730.773 Million cell updates/sec

Title: US-09-831-907A-1

Perfect score: 655

Sequence: 1 MYKLASCCLLFGFLNPLLS.....RTMKPKKRPDCEFWKVCV 124

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_40.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	655	100.0	124	UR2_HUMAN	O95399 homo sapien
2	286.5	43.7	123	UR2_MOUSE	Q94293 mus musculu
3	282.5	43.1	123	UR2_RAT	Q94294 rattus norv
4	120.5	18.4	127	UR2_RANR1	P33715 rana ridibu
5	90	13.7	125	UR2A_CYPCA	P04560 cyprinus ca
6	87.5	13.4	125	UR2B_CYPCA	P06580 cyprinus ca
7	79	12.1	3726	TRX_DROME	P20659 drosophila
8	71.5	10.9	271	IOD3_XENLA	P49899 xenopus lae
9	71	10.8	465	HXK1_DROME	O94293 drosophila
10	70	10.7	329	MDH_STRCO	O94333 streptomyce
11	69	10.5	431	MDH_HUMAN	P18075 homo sapien
12	69	10.5	525	NCAP_RINDL	P37708 rinderpest
13	68.5	10.5	373	DG1A_DETRA	O92670 delinococci
14	68.5	10.5	451	GNTF_ZYMO	P54556 bacillus su
15	68	10.4	319	COXA_BACSU	O10677 mycobacteri
16	68	10.4	508	COB1_MYCTU	P36008 saccharomyc
17	66	10.1	412	EPH1_YEAST	P40485 saccharomyc
18	66	10.1	686	YIF5_YEAST	Q01603 drosophila
19	66	10.1	690	PERO_DROME	P33232 caenorhabdi
20	66	10.1	1780	YKZ6_CAEEL	O16962 caenorhabdi
21	65.5	10.0	455	NH55_CAEEL	P32132 escherichia
22	65	9.9	591	TYPA_ECOLI	Q94293 escherichia
23	65	9.9	607	TYPA_ECO57	O64751 avian adeno
24	64.5	9.8	1121	DPOL_ADEG1	O52236 myxococcus
25	64.5	9.8	1201	MFD_MYXXA	P56785 arabidopsis
26	64.5	9.8	1786	YCCL_ARATH	P45676 platichthys
27	64	9.8	83	UR2_PLAFA	P21567 campylobact
28	64	9.8	262	CHER_CAMJE	P40427 drosophila
29	64	9.8	376	EXD_DROME	P23338 cricetus
30	64	9.8	408	GPT_CRILLO	O92485 homo sapien
31	64	9.8	465	AS3B_HUMAN	P33269 drosophila
32	64	9.8	512	CARD_DROME	O66651 aquifex aeo
33	64	9.8	956	STL_AOUAE	

ALIGNMENTS

RESULT 1	ID	UR2_HUMAN	STANDARD:	PRT:	124 AA.
AC	O95399	Q9UKP7			
DT	16-OCT-2001	(Rel. 40, Created)			
DT	16-OCT-2001	(Rel. 40, Last sequence update)			
DT	15-JUN-2002	(Rel. 41, Last annotation update)			
DE	Urotensin II precursor (U-II) (U11).				
GN	UTS2.				
OS	Homo sapiens (Human).				
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
OX	NCBI_TaxID=9606;				
ON	(1)				
RP	SEQUENCE FROM N.A.				
RC	TISSUE-Spinal cord;				
RX	MEDLINE=99080095; PubMed=9861051;				
RA	Coultourn Y., Lihmann I., Jegou S., Anouar Y., Tostivint H.,				
RA	Beauvillain J.C., Conlon J.M., Bern H.A., Vaudry H.;				
RT	"Cloning of the cDNA encoding the urotensin II precursor in frog and				
RT	human reveals intense expression of the urotensin II gene in				
RT	motoneurons of the spinal cord";				
RL	Proc. Natl. Acad. Sci. U.S.A. 95:15803-15808(1998).				
RN	(2)				
RP	SEQUENCE FROM N.A.				
RX	MEDLINE=99427933; PubMed=10499587;				
RA	Ames R.S., Sarau H.M., Chambers J.K., Willeite R.N., Aiyar N.V.,				
RA	Romantic A.M., Loudon C.S., Foley J.J., Sauermelch C.F., Coatsney R.W.,				
RA	Ho Z., Disa J., Holmes S.D., Stadel J.M., Martin J.D., Liu W.-S.,				
RA	Glover G.I., Wilson S., McNulty D.E., Ellis C.E., Elshourbagy N.A.,				
RA	Shabon U., Trill J.J., Hay D.W.P., Ohlstein E.H., Bergsma D.J.,				
RA	Douglas S.A.;				
RT	"Human urotensin-II is a potent vasoconstrictor and agonist for the				
RT	orphan receptor GPR14";				
RL	Nature 401:282-286(1999).				
RN	(3)				
RP	SEQUENCE FROM N.A.				
RA	Pearce A.;				
CC	Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.				
CC	- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR.				
CC	- SUBCELLULAR LOCATION: Secreted.				
CC	- TISSUE SPECIFICITY: BRAIN-SPECIFIC.				
CC	- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.				
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration				
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -				
CC	the European Bioinformatics Institute. There are no restrictions on its				
CC	use by non-profit institutions as long as its content is in no way				
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CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/				
CC	or send an email to license@sib-sib.ch).				
CC	EMBL: AF104118; AAD13070.1; -				
DR	EMBL: AF140630; AAD55577.1; -				
DR	EMBL: Z98884; CAB63148.1; -				
DR	Genew: HGNC:12636; UTS2.				

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OY 23 LIDSREISFQ----LSAPHEADARLTPEELERASL---LQILPEMIGAERGDIKRAADSST 75
Db 54 LVSSGELALQEOHNLIS-----MLPERSRAGLFGVGFQMPPELPGVNNKMFRLDA----- 102

OY 76 NIFNPGNLRFKODPFGSGODPNILLSHLARIMKPKKRETPDCCF 119
Db 103 --YNAARRANQEGDISIDEFNTLSTVL---ETFEYNATTDLFL 140

RESULT 11
H86576
ABC transporter ATPase [imported] - Chlamydomophila pneumoniae (strain J138)
C:Species: Chlamydomophila pneumoniae, Chlamydia pneumoniae
C:Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 23-Mar-2001
C:Accession: H86576
R:Shiomi, M.; Hirakawa, H.; Kimoto, M.; Tabuchi, M.; Kishi, F.; Ouchi, K.; Shiba, T.; Ishiura, H.
A:Title: Comparison of whole genome sequences of chlamydia pneumoniae J138.
A:Reference number: A86491; MUID:20330349; PMID:10871362
A:Accession: H86576
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-256 <STO>
A:Cross-references: GB:BA000008; NID:98979063; PIDN:BAA98898.1; GSPDB:GN00142
A:Experimental source: strain J138
C:Genetics:
A:Gene: abcx
C:Superfamily: unassigned ATP-binding cassette proteins; ATP-binding cassette homology

Query Match 11.1%; Score 73; DB 2; Length 256;
Best Local Similarity 31.7%; Pred. No. 6.5;
Matches 33; Conservative 11; Mismatches 36; Indels 24; Gaps 5;

OY 23 LIDSREISFQ----LSAPHEADARLTPEELERASL---LQILPEMIGAERGDIKRAADSST 75
Db 54 LVSSGELALQEOHNLIS-----MLPERSRAGLFGVGFQMPPELPGVNNKMFRLDA----- 102

OY 76 NIFNPGNLRFKODPFGSGODPNILLSHLARIMKPKKRETPDCCF 119
Db 103 --YNAARRANQEGDISIDEFNTLSTVL---ETFEYNATTDLFL 140

RESULT 12
T19241
hypothetical protein C13G3.3a - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C:Accession: T19241
R:McMurray, A.
submitted to the EMBL Data Library, June 1996
A:Reference number: Z19096
A:Accession: T19241
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-557 <WIL>
A:Cross-references: EMBL:Z74027; PIDN:CAA98422.1; GSPDB:GN00023; CESP:C13G3.3a
A:Experimental source: clone C13G3
C:Genetics:
A:Gene: CESP:C13G3.3a
A:Map position: 5
A:introns: 21/1; 52/1; 156/3; 510/3

Query Match 11.1%; Score 72.5; DB 2; Length 557;
Best Local Similarity 26.4%; Pred. No. 18;
Matches 23; Conservative 17; Mismatches 14; Indels 33; Gaps 5;

OY 3 KLASCCLELFGILNPLSLPLDSREISFQLSAPHEADARLTPEELERASLQILPEMIGA 62
Db 65 KLRCCCVF-DFANDALS-----DLKF-----KEYKRAALNELVDHVSQA 103

OY 63 ERGDILKRAADS-----STNIFNP 80
Db 126 LVALSERCILIFAGVNLQFL-----PTERRRSKTDPLVTENMLAALLSELI 169

Db 104 PKGSL---SDAVYPEAIGMFSTNLFRR 127

RESULT 13
T19242
hypothetical protein C13G3.3b - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C:Accession: T19242
R:McMurray, A.
submitted to the EMBL Data Library, June 1996
A:Reference number: Z19096
A:Accession: T19242
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-561 <WIL>
A:Cross-references: EMBL:Z74027; PIDN:CAA98423.1; GSPDB:GN00023; CESP:C13G3.3b
A:Experimental source: clone C13G3
C:Genetics:
A:Gene: CESP:C13G3.3b
A:Map position: 5
A:introns: 21/1; 56/1; 160/3; 514/3

Query Match 11.1%; Score 72.5; DB 2; Length 561;
Best Local Similarity 26.4%; Pred. No. 18;
Matches 23; Conservative 17; Mismatches 14; Indels 33; Gaps 5;

OY 3 KLASCCLELFGILNPLSLPLDSREISFQLSAPHEADARLTPEELERASLQILPEMIGA 62
Db 69 KLRCCCVF-DFANDALS-----DLKF-----KEYKRAALNELVDHVSQA 107

OY 63 ERGDILKRAADS-----STNIFNP 80
Db 108 PKGSL---SDAVYPEAIGMFSTNLFRR 131

RESULT 14
T20890
hypothetical protein F40G12.11 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 29-Oct-1999
C:Accession: T20890; T22062
R:Birks, M.
submitted to the EMBL Data Library, July 1996
A:Reference number: Z19340
A:Accession: T20890
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-381 <WIL>
A:Cross-references: EMBL:Z77658; PIDN:CAB01162.1; GSPDB:GN00023; CESP:F40G12.11
A:Experimental source: clone F14D7
R:McMurray, A.
submitted to the EMBL Data Library, July 1996
A:Reference number: Z19507
A:Accession: T22062
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-381 <WIL>
A:Cross-references: EMBL:Z77661; PIDN:CAB01191.1; GSPDB:GN00023; CESP:F40G12.11
A:Experimental source: clone F40G12
C:Genetics:
A:Gene: CESP:F40G12.11
A:Map position: 5
A:introns: 100/3; 261/2

Query Match 10.8%; Score 71; DB 2; Length 381;
Best Local Similarity 21.8%; Pred. No. 17;
Matches 24; Conservative 17; Mismatches 35; Indels 34; Gaps 3;

OY 1 MYKLASCCLELFGILNPLSLPLDSREISFQLSAPHEADARLTPEELERASLQILPEMIGA 60
Db 126 LVALSERCILIFAGVNLQFL-----PTERRRSKTDPLVTENMLAALLSELI 169

Thu Mar 11 10:10:10 2003

ms-09-831-907a-1 ramb

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1	PRIOR APPLICATION NUMBER: 60/090694
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27	PRIOR APPLICATION NUMBER: 60/092182
28	PRIOR FILING DATE: 1998-07-09

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QY	1	MYKASCLLFTGFNP	PLSLPLD	REISFQ	SAHPEDAR	RLPEL	ERAS	SLQ	ILPE	60
Db	1	MYKASCLLFTGFNP <th>PLSLPLD</th> <th>REISFQ</th> <th>SAHPEDAR</th> <th>RLPEL</th> <th>ERAS</th> <th>SLQ</th> <th>ILPE</th> <td>60</td>	PLSLPLD	REISFQ	SAHPEDAR	RLPEL	ERAS	SLQ	ILPE	60
QY	61	GAEGDILLRAD	STNIFN	RGNLRK	QD	SGDDPN <td>ILLSHL</td> <td>ARI</td> <td>WPKYKK</td> <td>REP</td>	ILLSHL	ARI	WPKYKK	REP
Db	61	GAEGDILLRAD	STNIFN	RGNLRK	QD	SGDDPN <td>ILLSHL</td> <td>ARI</td> <td>WPKYKK</td> <td>REP</td>	ILLSHL	ARI	WPKYKK	REP
QY	121	KYCV	124							
Db	121	KYCV	124							

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Job time : 10.7189 secs

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PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2%; Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFGFLNPLLSPLLDSDREISFQLSAPHEDARLTPEELRASLQILPEML 60
DB 1 MYKLASCCLLFGFLNPLLSPLLDSDREISFQLSAPHEDARLTPEELRASLQILPEML 60
QY 61 GAERGDILRKADSSNTINFPNGNLKRFQDFSGODPNILLSHLARITWPKKRETPDCFW 120
DB 61 GAERGDILRKADSSNTINFPNGNLKRFQDFSGODPNILLSHLARITWPKKRETPDCFW 120
QY 121 KYCV 124
DB 121 KYCV 124

RESULT 15
US-09-997-666-266
Sequence 266, Application US/09997666
Publication No. US20030027163A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.

PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2%; Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKASCCLEFICFLNPLSLPLDSRETSFQASAPHEARLTPELEERASLLQILEPML 60
DB 1 MYKASCCLEFICFLNPLSLPLDSRETSFQASAPHEARLTPELEERASLLQILEPML 60
QY 61 GAERGDILKAKSDSTNIFNPRGNLRFQDFSGODPMLLSHLARIMKRYKRETPDCW 120
DB 61 GAERGDILKAKSDSTNIFNPRGNLRFQDFSGODPMLLSHLARIMKRYKRETPDCW 120
QY 121 KYCV 124
DB 121 KYCV 124

RESULT 14

US-09-997-428-266

Sequence 266, Application US/09997428

Publication No. US20030027162A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C4
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11

TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC18
PRIOR APPLICATION NUMBER: US/09/990,562
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
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PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
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PRIOR APPLICATION NUMBER: 60/087609
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PRIOR APPLICATION NUMBER: 60/087759
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PRIOR APPLICATION NUMBER: 60/087827
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PRIOR APPLICATION NUMBER: 60/088021
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861

PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
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PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695

PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2%; Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MYKLASCCLLFGLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLQILPEML 60
Db 1 MYKLASCCLLFGLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLQILPEML 60
Qy 61 GAERGDILRKADSSNINPRGNLRKFFQDFSGQDPNILLSHLARIWPKYKRETPDCFW 120
Db 61 GAERGDILRKADSSNINPRGNLRKFFQDFSGQDPNILLSHLARIWPKYKRETPDCFW 120
Qy 121 KYCV 124
Db 121 KYCV 124

RESULT 13
US-09-990-562-266
Sequence 266, Application US/09990562
Publication No. US20030027985A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferreira, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2% Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCLFTGFLNPLSLPLDSREISFOLSAPHEADRLPPELEERASLLQILEPML 60
Db 1 MYKLASCLFTGFLNPLSLPLDSREISFOLSAPHEADRLPPELEERASLLQILEPML 60

QY 61 GAERGDILRKADSTNIFNPGNLRKFOQDSGQDPNILLSHLARIMKPYKKRTPPCFW 120
Db 61 GAERGDILRKADSTNIFNPGNLRKFOQDSGQDPNILLSHLARIMKPYKKRTPPCFW 120

QY 121 KYCV 124
Db 121 KYCV 124

RESULT 12
US-09-990-438-266
Sequence 266, Application US/09990438
Publication No. US20030027754A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin J.
APPLICANT: Kiljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730PIC3
CURRENT APPLICATION NUMBER: US/09/990,438
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
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PRIOR APPLICATION NUMBER: 60/087827
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PRIOR APPLICATION NUMBER: 60/088021
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PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
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PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11

[illegible]

PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
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PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
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PRIOR APPLICATION NUMBER: 60/090349
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PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696

PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2% Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKASCCLLFTGFLNPLSLPLDSREISFQLSAPHEDARLTPELEFASLQILPEML 60
DB 1 MYKASCCLLFTGFLNPLSLPLDSREISFQLSAPHEDARLTPELEFASLQILPEML 60
QY 61 GAERGDIKRRADSTNIENPGRNLKRFQDFSGODPWILLSHLLARIMKRYKRRPDCFW 120
DB 61 GAERGDIKRRADSTNIENPGRNLKRFQDFSGODPWILLSHLLARIMKRYKRRPDCFW 120
QY 121 KVCV 124
DB 121 KVCV 124

RESULT 11
US-09-993-667-266
Sequence 266, Application US/09993667
Publication No. US20030022187A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Geriltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimey, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C4

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; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

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Query Match          99.2%; Score 650; DB 9; Length 124;
Best Local Similarly 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 MYKASCCLEFICGLNPLSLPLDSREISFQLSAPHEDARLPPELEERASLQILPEML 60
Db 1 MYKASCCLEFICGLNPLSLPLDSREISFQLSAPHEDARLPPELEERASLQILPEML 60
QY 61 GAERGDLRKADSTNFNRGNLRKRFQDSGQDPNLLSHLARIMKPKKRETPPCFW 120
Db 61 GAERGDLRKADSTNFNRGNLRKRFQDSGQDPNLLSHLARIMKPKKRETPPCFW 120
QY 121 KYCV 124
Db 121 KYCV 124

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RESULT 10
US-09-997-653-266
; Sequence 266, Application US/09997653
; Publication No. US20030008297A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Collin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC38
; CURRENT APPLICATION NUMBER: US/09/997, 653

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; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
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; PRIOR APPLICATION NUMBER: 60/088861
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/088876
; PRIOR FILING DATE: 1998-06-11

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PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862

PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2% Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCLLFIFLNPILSLPLDLSREISFQLSAPHEADRLTPELEKASLIQILPEML 60

DB 1 MYKLASCLLFIFLNPILSLPLDLSREISFQLSAPHEADRLTPELEKASLIQILPEML 60

QY 61 GAERGDLIRKADSSTNIFENRCMLRRKQDSGDDPNILSHLLARIMPKYKRETPDCFW 120

DB 61 GAERGDLIRKADSSTNIFENRCMLRRKQDSGDDPNILSHLLARIMPKYKRETPDCFW 120

QY 121 KYCV 124

DB 121 KYCV 124

RESULT 9
US-09-989-734-266

; Sequence 266, Application US/09989734

; Publication No. US20030003531A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerltsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kijavlin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2730PIC64

; CURRENT APPLICATION NUMBER: US/09/989,734

; CURRENT FILING DATE: 2001-11-19

;; PRIOR APPLICATION NUMBER: 60/090863
;; PRIOR FILING DATE: 1998-06-26
;; PRIOR APPLICATION NUMBER: 60/091360
;; PRIOR FILING DATE: 1998-07-01
;; PRIOR APPLICATION NUMBER: 60/091478
;; PRIOR FILING DATE: 1998-07-02
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;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match 99.2% Score 650: DB 9: Length 124:
Best Local Similarity 99.2% Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFGLFNLPLSLPLDSREISFQLSAPHEPARLTPPEELERASLLQILPEML 60
 |||||
DB 1 MYKLASCCLLFGLFNLPLSLPLDSREISFQLSAPHEPARLTPPEELERASLLQILPEML 60
QY 61 GAERGCIILKRASSSTINFNRCNLKRFQDFSGDDPNILLSHLARIWKPKKRETPDCFW 120
 |||||
DB 61 GAERGCIILKRASSSTINFNRCNLKRFQDFSGDDPNILLSHLARIWKPKKRETPDCFW 120
QY 121 KYCV 124
 |||||
DB 121 KYCV 124

RESULT 8
US-09-993-667-266

;; Sequence 266, Application US/09993687
;; Publication No. US20020198149A1
;; GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerder, Hanspeter
;; APPLICANT: Gerlitsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kijavlin, Ivar J.
;; APPLICANT: Knapier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PIC11
;; CURRENT APPLICATION NUMBER: US/09/993,687
;; PRIOR FILING DATE: 2002-11-14
;; PRIOR APPLICATION NUMBER: 60/049787

;; PRIOR FILING DATE: 1997-06-16
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/065186
;; PRIOR FILING DATE: 1997-11-12
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066770
;; PRIOR FILING DATE: 1997-11-24
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;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/088876
;; PRIOR FILING DATE: 1998-06-11
;; PRIOR APPLICATION NUMBER: 60/089105
;; PRIOR FILING DATE: 1998-06-12

Page 11

PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089514
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PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089538
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PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23	PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23	PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090411
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090682
PRIOR FILING DATE: 1998-06-26	PRIOR APPLICATION NUMBER: 60/090626

PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863

PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2%; Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCLLFTGFLNPLSLPLDLSREISFQLSAPHEPARLTPPELIERASLLQILPEML 60
|||||
DB 1 MYKLASCLLFTGFLNPLSLPLDLSREISFQLSAPHEPARLTPPELIERASLLQILPEML 60

QY 61 GAERDILRKADSTNIFNPRGNLKKRFQDFSGDPPNILLSHLARIWKYKKRPTDCFW 120
|||||
DB 61 GAERDILRKADSTNIFNPRGNLKKRFQDFSGDPPNILLSHLARIWKYKKRPTDCFW 120

QY 121 KYCV 124
||||
DB 121 KYCV 124

RESULT 7

US-09-991-181-266
Sequence 266, Application US/09991181
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerder, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC53
CURRENT APPLICATION NUMBER: US/09/991,181
CURRENT FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2%; Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MYKLSCCLFGFNPPLSLPLDSREISFQLSAPHEDARLTPEELERASLIQILPEML 60
Db 1 MYKLSCCLFGFNPPLSLPLDSREISFQLSAPHEDARLTPEELERASLIQILPEML 60
Qy 61 GAERGDILRKADSTNINFRGNLRRKFDQSGDPNILLSHLARIWKYKKRRTPDGFW 120
Db 61 GAERGDILRKADSTNINFRGNLRRKFDQSGDPNILLSHLARIWKYKKRRTPDGFW 120
Qy 121 KYCV 124
Db 121 KYCV 124

RESULT 6
US-09-990-436-266
Sequence 266, Application US/09990436
Publication No. US20020198148A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C14
CURRENT APPLICATION NUMBER: US/09/990.436
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16

PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089601
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360

PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2%; Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3, 2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLEIFGFLNPLSLPLDLSREISFQLSAPHEARLTPPEELERASLLQILPEML 60
DB 1 MYKLASCCLEIFGFLNPLSLPLDLSREISFQLSAPHEARLTPPEELERASLLQILPEML 60
QY 61 GAERGDILRKADSTNIFNPGNLRRKQDFSGODPNILLSHLARIMKPKKRETPDCFW 120
DB 61 GAERGDILRKADSTNIFNPGNLRRKQDFSGODPNILLSHLARIMKPKKRETPDCFW 120
QY 121 KYCV 124
DB 121 KYCV 124

RESULT 5
US-09-989-730-266
Sequence 266, Application US/09989730
Publication No. US20020197674A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC69
CURRENT APPLICATION NUMBER: US/09/989,730
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2% Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3, 2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFGFLNPLSLPLDLSREISFOLSAPEHDARLTPEELERASLIQILPEML 60
DB 1 MYKLASCCLLFGFLNPLSLPLDLSREISFOLSAPEHDARLTPEELERASLIQILPEML 60
QY 61 GAERGDILRKADSTNIIFNPRGNLRKRFQDSGDPNILLSHLARIIMKPKKRETPDCFW 120
DB 61 GAERGDILRKADSTNIIFNPRGNLRKRFQDSGDPNILLSHLARIIMKPKKRETPDCFW 120

QY 121 KYCV 124
DB 121 KYCV 124

RESULT 4
US-09-990-444-266
Sequence 266, Application US/09990444
Publication No. US20020193300A1
GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P273091C19
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089512
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PRIOR APPLICATION NUMBER:	60/090444
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PRIOR FILING DATE:	1998-07-01

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PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478

PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2% Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3,2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MYKLSCCLFTGFNPLSLPLDSREISFOLSPHEDARTPELEKASLQLPEML 60
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Db 61 GAERGDILRKADSSNINPNRGNLRKFDGSGDPNILLSHLARIMPKYKRPDPCFW 120
Qy 121 KYCV 124
Db 121 KYCV 124

RESULT 3

US-09-989-735-266
Sequence 266, Application US/09989735
Publication No. US20020193299A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC61
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/091544
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 99.2%; Score 650; DB 9; Length 124;
Best Local Similarity 99.2%; Pred. No. 3.2e-66;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCLLEFGLNPLSLPLDSREISFQLSAPHEARLTPEELERASLQILPEML 60
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RESULT 2
US-09-989-293A-266
Sequence 266, Application US/09989293A

Patent No. US20020177164A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
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APPLICANT: Gurney, Austin L.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C66
CURRENT APPLICATION NUMBER: US/09/989,293A
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1998-06-16

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:38:48 ; Search time 9.71892 Seconds
(without alignments)
538.033 Million cell updates/sec

Title: US-09-831-907A-1

Perfect score: 655
Sequence: 1 MYKLASCLLFTGFLNPLLS.....RIMKPKKRETPDCRWKCV 124

Scoring table:
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Gapop 10.0 , Gapext 0.5

Searched: 188354 seqs, 42170167 residues

Total number of hits satisfying chosen parameters: 188354

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	650	99.2	124	9	US-09-989-293A-266
3	650	99.2	124	9	US-09-989-735-266
4	650	99.2	124	9	US-09-990-444-266
5	650	99.2	124	9	US-09-989-730-266
6	650	99.2	124	9	US-09-990-436-266
7	650	99.2	124	9	US-09-991-181-266
8	650	99.2	124	9	US-09-993-687-266
9	650	99.2	124	9	US-09-989-734-266
10	650	99.2	124	9	US-09-997-653-266
11	650	99.2	124	9	US-09-993-667-266
12	650	99.2	124	9	US-09-990-438-266
13	650	99.2	124	9	US-09-990-562-266
14	650	99.2	124	9	US-09-997-428-266
15	650	99.2	124	9	US-09-997-666-266
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21	650	99.2	124	10	US-09-989-727-266	Sequence 266, App
22	650	99.2	124	10	US-09-989-731-266	Sequence 266, App
23	650	99.2	124	10	US-09-989-732-266	Sequence 266, App
24	650	99.2	124	10	US-09-991-073-266	Sequence 266, App
25	650	99.2	124	10	US-09-990-442-266	Sequence 266, App
26	650	99.2	124	10	US-09-991-163-266	Sequence 266, App
27	650	99.2	124	10	US-09-993-604-266	Sequence 266, App
28	650	99.2	124	10	US-09-990-466-266	Sequence 266, App
29	650	99.2	124	10	US-09-989-731-266	Sequence 266, App
30	586.5	89.5	125	10	US-09-854-105-2	Sequence 2, App1
31	71	10.8	465	10	US-09-815-242-10512	Sequence 10512, A
32	69	10.5	431	8	US-08-822-186-2	Sequence 2, App1
33	69	10.5	431	8	US-08-937-755-2	Sequence 2, App1
34	69	10.5	431	9	US-09-982-543A-10	Sequence 10, App1
35	69	10.5	431	9	US-10-062-370-5	Sequence 5, App1
36	69	10.5	431	9	US-09-039-107-2	Sequence 2, App1
37	69	10.5	431	10	US-09-045-131-2	Sequence 2, App1
38	69	10.5	431	10	US-09-828-607-2	Sequence 2, App1
39	69	10.5	432	10	US-09-361-741-3	Sequence 3, App1
40	66	10.1	437	10	US-10-156-239-49	Sequence 49, App1
41	66	10.1	437	10	US-09-808-568-2	Sequence 2, App1
42	66	10.1	783	10	US-09-888-615-67	Sequence 67, App1
43	66	10.1	814	9	US-10-156-239-52	Sequence 52, App1
44	66	10.1	814	10	US-09-808-568-5	Sequence 5, App1
45	65.5	10.0	216	9	US-09-925-299-841	Sequence 841, App

ALIGNMENTS

RESULT 1
US-09-992-598-266
Sequence 266, Application US/09992598
Patent No. US20020160384A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC20
CURRENT APPLICATION NUMBER: US/09/992,598
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13

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OY 120 WKYCV 124
 |||||
 Db 118 WKYCV 122

RESULT 13
 AA080120
 ID AA080120 standard; Protein: 122 AA.

AC AA080120;

DT 07-OCT-2002 (first entry)

DE Cow sensory epithelium neuropeptide-like receptor (SENR) protein.

KW SENR: Sensory epithelium neuropeptide-like receptor; cow; fear;
 attention deficit disorder; narcolepsy; anxiety; depression; insomnia;
 schizophrenia; G protein-coupled; receptor.

OS Bos taurus.

PN WO200214513-A1.

PD 21-FEB-2002.

PE 10-AUG-2001; 2001WO-JP06899.

PR 10-AUG-2000; 2000JP-0247968.

PA (TAKE) TAKEDA CHEM IND LTD.

PI Matsumoto Y, Watanabe T, Takahashi H, Mori M;

DR WPI: 2002-329576/36.

PT Polypeptide GPR12 with ligand activity to sensor epithelium
 neuropeptide-like receptor, useful e.g. in treating attention deficit
 disorder or narcolepsy, or for screening drug candidates for these
 indications and for anxiety

PS Claim 6; Page 276; 290pp; Japanese.

XX This invention relates to an anti-attention deficit disorder or anti-
 CC narcolepsy agent containing a polypeptide with a sequence identical or
 CC substantially similar to a fully defined 12 amino acid sequence given in
 CC the specification, and its amide, ester or their salt. The peptides
 CC have ligand activity to sensory epithelium neuropeptide-like receptor
 CC (SENR) protein. The invention also includes a method for diagnosing
 CC attention deficit disorder, narcolepsy, anxiety, depression, insomnia,
 CC schizophrenia or fear. The polypeptides of the invention, their
 CC precursor proteins and their encoding DNAs are useful in treating
 CC attention deficit disorder or narcolepsy, or for screening drug
 CC candidates for these indications and for anxiety, depression, insomnia,
 CC schizophrenia or fear. They are also useful for gene therapy. The
 CC polypeptide is a G protein-coupled receptor protein, with ligand
 CC activity to sensor epithelium neuropeptide-like receptor. The present
 CC sequence represents the cow sensory endothelium neuropeptide-like
 CC receptor protein of the invention.

XX Sequence 122 AA;

Query Match 61.4%; Score 402; DB 23; Length 122;
 Best Local Similarity 68.8%; Pred. No. 1.4e-39;
 Matches 86; Conservative 10; Mismatches 25; Indels 4; Gaps 3;

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 Db 60 GAEETGGLRNTDPTNIFPRGNMRK--AFSGDDPKLFLSDLSIRIKOSKKRGPSECF 117

OY 120 WKYCV 124
 |||||
 Db 118 WKYCV 122

RESULT 14
 AAB12496
 ID AAB12496 standard; Protein: 121 AA.

AC AAB12496;

DT 27-OCT-2000 (first entry)

DE Pig SENR ligand protein sequence SEQ ID NO:18.

KW SENR: sensory epithelium neuropeptide-like receptor; urotensin II;
 diagnosis; G protein-coupled receptor; hypertension; GPR14; hormone;
 kidney disease; regulator; central function; circulatory function;
 heart function; immune system function; digestive function;
 metabolic function; genital function.

OS Sus scrofa.

PN WO200032627-A1.

PD 08-JUN-2000.

PE 29-NOV-1999; 99WO-JP06649.

PR 30-NOV-1998; 98JP-0338984.

PR 04-FEB-1999; 99JP-0026848.

PR 26-AUG-1999; 99JP-0239367.

PA (TAKE) TAKEDA CHEM IND LTD.

PI Mori M, Abe M, Shimomura Y, Sugo T, Kitada C;

DR WPI: 2000-412287/35.

PT Urotensin peptides which are ligands for sensory epithelium
 neuropeptide-like receptor (SENR) for diagnosis and treatment of
 hypertension

PS Claim 4; Page 134; 147pp; Japanese.

XX The present invention provides peptides which are ligands for sensory
 CC epithelium neuropeptide-like receptor (SENR), and their amides, esters
 CC and salts. SENR is a G-protein coupled receptor protein (also known as
 CC GPR14), and the peptides which are ligands for it are forms of the
 CC peptide hormone urotensin II. The peptides can be used in the treatment
 CC and diagnosis of hypertension and kidney disease, and the development of
 CC drugs which are regulators of central functions, circulatory functions,
 CC heart functions, immune system functions, digestive functions, metabolic
 CC functions and genital functions. The present sequence represents a
 CC specifically claimed pig SENR ligand protein sequence, from the
 CC present invention.

XX Sequence 121 AA;

Query Match 52.3%; Score 342.5; DB 21; Length 121;
 Best Local Similarity 61.6%; Pred. No. 1.5e-32;
 Matches 77; Conservative 12; Mismatches 31; Indels 5; Gaps 4;

OY 1 MYKLASCCLFIFGLNPLSLPLDSREISFOLSAPEHDAARLPPELEKASLLQIIPML 60
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Db 1 MSKLVLP-CLLLCLGFLFALPVDKRKPLPSAP-EDVRSMDELERSASLLQMLPETP 58

OY 61 GAERGDLRKADSTNIFNPGNULRKRFQDSGDDPNILSHLARIMKPKR-ETPPDCF 119

Db 59 GAEGEDLREADAGMDIEFPRGEMRK--AFSGDDPNIFLSHLARIMKPKRGPSECF 116

OY 120 WKYCV 124
 |||||

XX	DE	Human Urotensin II partial polypeptide sequence.
KW	KM	Urotensin II; systemic vasoconstrictor; antibody; agonist; antagonist;
KW	KM	myocardial contractile dysfunction; lethal arrhythmia; asthma; allergy;
KW	KM	ischemic coronary artery disease; atherosclerosis; metabolic disease;
KW	KM	restenosis; hypertension; hypotension; pulmonary disease; cancer;
KW	KM	cerebrovascular event; neurogenic inflammation; migraine; pain;
KW	KM	autoimmune disease, fibroproliferative disorder; renal failure;
KW	KM	microbial infection; viral infection; eating disorder;
KW	KM	Huntington's disease; Gilles de la Tourette's syndrome.
XX	OS	Homo sapiens.
XX	FH	Key Location/Qualifiers
XX	FT	CDS 4..315
XX	FT	/tag= a
XX	FT	/product= Human_Urotensin_II
PN	XX	MO9935266-A2.
PD	XX	15-JUL-1999.
PF	XX	08-JAN-1999; 99WO-US00489.
PR	XX	09-JAN-1998; 98US-0072383.
PR	XX	04-FEB-1998; 98US-0073616.
PR	XX	20-FEB-1998; 98US-0027381.
PR	XX	05-JAN-1999; 99US-0225747.
PA	XX	(SMIK) SWITKLINE BEECHAM CORP.
PA	XX	(SMIK) SWITKLINE BEECHAM PLC.
PA	XX	(SMIK) SWITKLINE BEECHAM LAB PHARM.
PI	XX	Culp JS, McNulty DE, Ellis CE, Douglas SA, Willette RN, Aiyar NV;
PI	XX	Arnold AR, Khandoudi N, Gout B, Al-Barazangi K;
DR	XX	WPI: 1999-590681/50.
DR	XX	N-PSDB: AAZ28382.
PT	XX	New human Urotensin II polypeptides and polynucleotides -
PS	XX	Claim 14; Page 28; 39pp; English.
CC	XX	This is a partial human Urotensin II polypeptide sequence. This sequence
CC	XX	was identified prior to the identification of the full length sequence
CC	XX	AAZ28381. This partial sequence was derived from EST (Expressed Sequence
CC	XX	Tag) sequences. Urotensin II is the most potent mammalian
CC	XX	vasoconstrictor identified to date. The invention relates to Urotensin II
CC	XX	polypeptides and polynucleotides, which can be used to generate
CC	XX	antibodies specific for Urotensin II. The polypeptides and
CC	XX	polynucleotides of the invention can be used to identify agonists and
CC	XX	antagonists of the Urotensin II polypeptide. Urotensin II induces
CC	XX	systemic vasoconstriction, myocardial contractile dysfunction, and
CC	XX	ultimately, lethal arrhythmias. Urotensin polypeptides are
CC	XX	polynucleotides, agonists, antagonists and antibodies are used to treat
CC	XX	diseases, including ischemic coronary artery disease; atherosclerosis;
CC	XX	metabolic diseases; CHF/myocardial dysfunction; arrhythmias; restenosis;
CC	XX	hypertension; hypotension; pulmonary disease; fibrotic vasculopathies;
CC	XX	cerebrovascular events; neurogenic inflammation/migraine; hematopoietic
CC	XX	disorders; cancer; autoimmune diseases, fibroproliferative disorders;
CC	XX	renal failure and glomerulopathies; microbial and viral infections; pain;
CC	XX	eating disorders; asthma; allergies; Huntington's disease or Gilles de la
CC	XX	Tourette's syndrome. The polynucleotide is also useful as a source of
CC	XX	primers and probes, and also for detecting the above diseases.
SQ	XX	Sequence 103 AA:
Query Match	76.0%;	Score 498; DB 20; Length 103;
Best Local Similarity	87.3%;	Pred. No. 4,6e-51;
Matches 96; Conservative	2;	Mismatches 4; Indels 8; Gaps 14;
15 LNPILSLPLDSDSEISFQLSAPHEHDARLTPPELEERSLSLIQIIPENMGARGDIKLRAOSS 74		

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Db      2 MNPLTS-----ICRYSAVPHEDALTPPEELERASLTQLDLPMLGAERGDILRKADSS 53
QY      75 TNIFNPRGNLRKFQDFSGQDPNILLSHLARIMKPYKKRETPDCFFMKYCV 124
        |||||||
        54 TNIFNPRGNLRKFQDFSGQDPNILLSHLARIMKPYKKRETPDCFFMKYCV 103
Db

RESULT 12
AAB12501
ID      AAB12501 standard; Protein: 122 AA.
AC      AAB12501;
XX      27-OCT-2000 (first entry)
XX      Bovine SENR ligand protein sequence SEQ ID NO:29.
DE
XX      SENR; sensory epithelium neuropeptide-like receptor; urotensin II;
KW      diagnosis; G protein-coupled receptor; hypertension; GPR14; hormone;
KW      kidney disease; regulator; central function; circulatory function;
KW      heart function; immune system function; digestive function;
KW      metabolic function; genital function.
KW
XX      Bos taurus.
OS
XX      WO200032627-A1.
PN
XX      08-JUN-2000.
PD
XX      29-NOV-1999; 99WO-JP06649.
XX
XX      30-NOV-1998; 98JP-0338984.
PR      04-FEB-1999; 99JP-0026848.
PR      26-AUG-1999; 99JP-0239367.
XX
XX      (TAKE ) TAKEDA CHEM IND LTD.
XX
XX      Mori M, Abe M, Shlomura Y, Sugo T, Kitada C;
XX
XX      WPI: 2000-412287/35.
XX
XX      urotensin peptides which are ligands for sensory epithelium
XX      neuropeptide-like receptor (SENR) for diagnosis and treatment of
XX      hypertension
XX
XX      Example 36; Page 140-141; 147pp; Japanese.
XX
XX      The present invention provides peptides which are ligands for sensory
XX      epithelium neuropeptide-like receptor (SENR), and their amides, esters
XX      and salts. SENR is a G-protein coupled receptor protein (also known as
XX      GPR14), and the peptides which are ligands for it are forms of the
XX      peptide hormone urotensin II. The peptides can be used in the treatment
XX      and diagnosis of hypertension and kidney disease, and the development of
XX      drugs which are regulators of central functions, circulatory functions,
XX      heart functions, immune system functions, digestive functions, metabolic
XX      functions and genital functions. The present sequence represents a
XX      bovine SENR ligand protein from the present invention.
XX
XX      Sequence 122 AA:
SQ
        Query Match 61.4%; Score 402; DB 21; Length 122;
        Best Local Similarity 68.8%; Pred. No. 1.4e-39;
        Matches 86; Conservative 10; MisMatches 25; Indels 4; Gaps 3.

QY      1 MYKLASCCILFGEFLNPLSLPLSLPDSREISFOLSAHEDARLPPEELERASLTQLPEML 60
        |||||
        1 MYKLVSCCLEFLISLNPDLPLVDSRÖSLQLLAP-EDVRSITLDELRASLTQLMPKMS 59
Db      61 GARGGILRKADSSTNIFNPRGNLRKFQDFSGQDPNILLSHLARIMKPYKKR-ETPDGF 119
        ||| : || : || ||||| : ||||| : ||||| : ||||| : ||||| : |||||
        60 GAETGEGRLRTMDITITNIFYRGNMKR-AFSSGDPRLFLSDLLSRIRKQSKKRGPSSECF 117

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KM		anyotropic lateral sclerosis; antihypertensive agent.
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	Peptide	1..90
FT	/note= "pro-segment of urotensin II"	
FT	Peptide	94..104
XX	/note= "urotensin II"	
PN	WO200031265-A1.	
PD	02-JUN-2000.	
XX		
PF	26-NOV-1999;	99MO-FR02941.
PR	26-NOV-1998;	98FR-0014914.
PA	(INRM) INST NAT SANTE & RECH MEDICALE.	
PI	Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;	
DR	WPI: 2000-400075/34.	
DR	N-PDSB; AAA46699.	
PT	New mammalian urotensin II polypeptide, useful for treating	
PS	neurodegeneration and spinal cord injury -	
XX	Claim 2; Page 25; 42pp; French.	
CC	The present sequence represents a human pro-urotensin II polypeptide.	
CC	In mammals, urotensin II promotes survival and regeneration of motor	
CC	neurons, and also has a hypertensive effect. The urotensin II	
CC	polypeptides and polynucleotides are useful for treating	
CC	neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,	
CC	para-plegia or anyotropic lateral sclerosis). The polypeptides	
CC	are also used to screen for specific inhibitors, i.e. potential	
XX	antihypertensive agents.	
SQ	Sequence 104 AA;	
	Query Match 83.8%; Score 549; DB 21; Length 104;	
	Best Local Similarity 100.0%; Pred. No. 4.3e-57;	
	Matches 104; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
OY	21 LPILDSREISFOLSPAPHEPARITPELEERASLLQLLPEMLGAERDILLRKADSSNIENP 80	
DB	1 LPILDSREISFOLSPAPHEPARITPELEERASLLQLLPEMLGAERDILLRKADSSNIENP 60	
OY	81 RGNLRKFODFSGQDPNIIILSHLARIMKPYKKRETPDCFWKCVCV 124	
DB	61 RGNLRKFODFSGQDPNIIILSHLARIMKPYKKRETPDCFWKCVCV 104	
RESULT 10		
ID	AAV39390	
AC	AAV39390 standard; Protein: 139 AA.	
DT	20-DEC-1999 (first entry)	
DE	Human Urotensin II polypeptide 1.	
XX		
XX	Urotensin II; systemic vasoconstrictor; antibody; agonist; antagonist;	
KM	myocardial contractile dysfunction; lethal arrhythmia; asthma; allergy;	
KM	ischemic coronary artery disease; atherosclerosis; metabolic disease;	
KM	restenosis; hypertension; hypotension; pulmonary disease; cancer;	
KM	cerebrovascular event; neurogenic inflammation; migraine; pain;	
KM	autoimmune disease, fibroproliferative disorder; renal failure;	
KM	microbial infection; viral infection; eating disorder;	
KM	Huntington's disease; Gilles de la Tourette's syndrome.	
XX		

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OS Homo sapiens.
XX MO99J5266-A2.]
PN 15-JUL-1999.]
PD XX
PF XX
PR 08-JAN-1999; 99MO-USO0489.
XX PR 09-JAN-1998; 98US-0072383.
XX PR 04-FEB-1998; 98US-0073616.
XX PR 20-FEB-1998; 98US-0027381.
XX PR 05-JAN-1999; 99US-0225747.
PA (SMK ) SMITHKLIN BECHAM CORP.
PA (SMIK ) SMITHKLIN BECHAM PLC.
XX (SMIK ) SMITHKLIN BECHAM LAB PHARM.
PI Culp JS, McNulty DE, Ellis CE, Douglas SA, Willette RN, Aiyar NV;
XX Arnold AR, Khandooudi N, Gout B, Al-barazani K;
XX MPI: 1999-590681/50.
DR N-PSTDB: AAZ28381.
XX PS New human Urotensin II polypeptides and polynucleotides -
XX Claim 1, Page 28; 39pp; English.
XX This is the human Urotensin II polypeptide I sequence. Urotensin II is
CC the most potent mammalian vasoconstrictor identified to date. This
CC sequence shows homology with carp urotensin II-alpha. The invention
CC relates to Urotensin II polypeptides and polynucleotides, which can be
CC used to generate antibodies specific for Urotensin II. The polypeptides
CC and polynucleotides of the invention can be used to identify agonists and
CC antagonists of the Urotensin II polypeptide. Urotensin II induces
CC systemic vasoconstriction, myocardial contractile dysfunction, and
CC ultimately, lethal arrhythmias. Urotensin polypeptides and
CC polynucleotides, agonists, antagonists and antibodies are used to treat
CC diseases, including ischemic coronary artery disease; atherosclerosis;
CC metabolic diseases; CHF/myocardial dysfunction; arrhythmias; restenosis;
CC hypertension; hypotension; pulmonary disease; fibrotic vasculopathies;
CC cerebrovascular events; neurogenic inflammation/migraine; haematopoietic
CC disorders; cancer; autoimmune diseases; fibroproliferative disorders;
CC renal failure and glomerulopathies; microbial and viral infections; pain;
CC eating disorders; asthma; allergies; Huntington's disease or Gilles de la
CC Tourette's syndrome. The polynucleotide is also useful as a source of
CC primers and probes, and also for detecting the above diseases.
SO Sequence 139 AA;

Query Match      81.5%; Score 533.5; DB 20; Length 139;
Best Local Similarity 84.8%; Pred. No. 4.3e-55;
Matches 106; Conservative 2; Mismatches 12; Indels 5; Gaps 2

QY 2 YKLASCDLFLGFLNPLSLPLDLS--REISQLSPHEDAPLTPEELERASILQTLPEM 59
   : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 18 HKHSYSLC---FGHFYSYSLPLIHLLLEIISQLSAPHEDAPLTPEELERASILQIPM 74

QY 60 LGAERGDLIRKADSSSTNFENRGNLRKFODESGODPINILSHLARIMPKYKKRPDPDF 119
   ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 75 LGAERGDLIRKADSSSTNFENRGNLRKFODESGODPINILSHLARIMPKYKKRPDPDF 134
QY 120 WKYCV 124
   |||||
Db 135 WKYCV 139

RESULT 11
ID AAY39391 standard; Protein; 103 AA.
AC AAY39391.
XX
XX AY39391.
XX
XX 20-DEC-1999 (first entry)

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reaction, to generate transgenic animals or knock-out animals which in turn are useful in the development and screening of therapeutically useful reagents, for chromosome identification, and tissue typing. The PRO polypeptides are useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The sequences may also be used to detect overexpression on PRO polypeptides in cancerous tumours and for screening for differentially expressed genes using microarray technology. The present sequence represents a human PRO protein of the invention.

Sequence 124 AA:

Query Match 99.2%: Score 650; DB 23; Length 124;
Best Local Similarity 99.2%: Pred. No. 5.8e-69;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60
DB 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60
QY 61 GAERGDILRKADSTNIFNRCNLRRKFQDFSGQDPNILLSHLLARIWKPKKRETPDCFW 120
DB 61 GAERGDILRKADSTNIFNRCNLRRKFQDFSGQDPNILLSHLLARIWKPKKRETPDCFW 120
QY 121 KYCV 124
DB 121 KYCV 124

RESULT 8

AAU81965
ID AAU81965 standard; Protein: 124 AA.

AC AAU81965;

DT 09-APR-2002 (first entry)

DE Human PRO1068.

Human; PRO; antiinflammatory; ophthalmological; vasotropic;
retinal cell injury; ocular disease; retinitis pigmentosa;
macular degeneration; retinal detachment; retinal tear; retinopathy;
retinal degenerative disease; macular hole; degenerative myopia;
acute retinal necrosis syndrome; traumatic choriorretinopathy;
Purtscher's retinopathy; oedema; ischaemic condition;
retinal vision occlusion; collagen vascular disease;
thrombocytopaenic purpura; uveitis; retinal vasculitis; Eales disease;
systemic lupus erythematosus; environmental trauma.

OS Homo sapiens.

PN WO200109327-A2.

PD 08-FEB-2001.

PF 28-JUL-2000; 2000WO-US20710.

XX 28-JUL-1999; 99US-146222P.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21090.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US05004.
PR 02-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06884.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.

XX (GENTH) GENENTECH INC.

PA Ashkenazi AJ, Baker KP, Goddard A, Godowski PJ, Gurney AL;

PI Kiljavan JJ, Lafleur M, Mark MR, Marsters SA, Pitti RM;

PI Malanovic CK, Wood WI;

DR WPI: 2002-130120/17.

DR N-PSDB: ABK28601.

PT Promoting survival of retinal cells, or delaying or preventing retinal

PT cell injury or death, by contacting retinal cells with PRO175, 220,

PT 216, 243, 306, 346, 322, 536, 943, 840, 828, 826, 1068 or PRO1132

PT polypeptide -

PS Claim 44; Fig 27; 152pp; English.

XX The invention relates to promoting the survival of retinal cells, or
CC delaying or preventing retinal cell injury or death, by contacting the
CC retinal cells with the polypeptide such as PRO175, PRO220, PRO216,
CC PRO243, PRO306, PRO346, PRO322, PRO536, PRO943, PRO840, PRO828, PRO826,
CC PRO1068 or PRO1132 polypeptide. Also included are the nucleic acids
CC encoding the PRO proteins, a vector comprising the nucleic acid, a host
CC cell comprising the vector, and anti-PRO antibody. The PRO proteins are
CC useful for promoting survival of retinal cells (retinal neurons such as
CC retinal ganglion cells, displaced retinal ganglion cells, amacrine
CC cells, displaced amacrine cells, horizontal neurons or bipolar neurons,
CC rod photoreceptors, or supportive cells such as Muller cells or pigment
CC epithelial cells), or delaying or preventing retinal cell injury or
CC death caused by ocular disease (which is or is associated with
CC retinitis pigmentosa, macular degeneration, retinal detachment, retinal
CC tear, retinopathy, retinal degenerative disease, macular hole,
CC degenerative myopia, acute retinal necrosis syndrome, traumatic
CC choriorretinopathy or contusion, Purtscher's retinopathy, oedema, an
CC ischaemic condition, central or branch retinal vision occlusion,
CC collagen vascular disease, thrombocytopaenic purpura, uveitis, retinal
CC vasculitis, occlusion associated with Eales disease or systemic lupus
CC erythematosus), retinal injury or environmental trauma. The retinal
CC cell injury or death is delayed or prevented by substantially not
CC causing angiogenesis or mitogenesis. The present sequence represents
CC a PRO protein.

SQ Sequence 124 AA:

Query Match 99.2%: Score 650; DB 23; Length 124;
Best Local Similarity 99.2%: Pred. No. 5.8e-69;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60
DB 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60
QY 61 GAERGDILRKADSTNIFNRCNLRRKFQDFSGQDPNILLSHLLARIWKPKKRETPDCFW 120
DB 61 GAERGDILRKADSTNIFNRCNLRRKFQDFSGQDPNILLSHLLARIWKPKKRETPDCFW 120
QY 121 KYCV 124
DB 121 KYCV 124

RESULT 9

AAI93640
ID AAI93640 standard; Protein: 104 AA.

XX AAI93640;

DT 25-SEP-2000 (first entry)

XX Amino acid sequence of a human pro-urotensin II (UII) polypeptide.

DE Urotensin II: motor neuron; hypertensive; neurodegeneration;

XX spinal cord trauma; hemi-plegia; para-plegia;

KW

PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28634.
 PR 09-DEC-1999; 99US-0170262.
 PR 20-DEC-1999; 99WO-US30911.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.

XX (GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Chan B, Goddard A, Godowski PJ, Gurney AL;
 PI Hebert C, Henzel W, Kabakoff RC, Shelton DL, Tumas D, Watanabe CK;
 PI Wood WI;

DR WPI: 2001-025253/03.
 DR N-PSDB: AAC91478.

XX Thirty three nucleic acids encoding PRO polypeptides which are useful
 PT in the diagnosis and treatment of immune related disorders, e.g.
 PT systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
 PT thyroiditis and diabetes mellitus -

XX Claim 58; Fig 36; 218pp; English.

XX The present sequence is one of thirty three novel PRO polypeptides.
 CC The PRO polypeptides, anti-PRO antibodies, agonists and
 CC antagonists are useful for treating and diagnosing immune related
 CC disorders such as systemic lupus erythematosus, rheumatoid arthritis,
 CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
 CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
 CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
 CC immune-mediated renal disease, demyelinating diseases of the central
 CC and peripheral nervous systems (such as multiple sclerosis, idiopathic
 CC demyelinating polyneuropathy or Guillain-Barre syndrome, and chronic
 CC inflammatory demyelinating polyneuropathy), hepatobiliary diseases
 CC (such as infectious, autoimmune chronic active hepatitis, primary
 CC biliary cirrhosis, granulomatous hepatitis and sclerosing cholangitis),
 CC inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's
 CC disease, autoimmune or immune-mediated skin diseases (such as bullous
 CC skin diseases, erythema multiforme, contact dermatitis, psoriasis),
 CC allergic diseases such as asthma, allergic rhinitis, atopic dermatitis,
 CC food hypersensitivity and urticaria), immunologic diseases of the
 CC lung (such as eosinophilic pneumonias, idiopathic pulmonary fibrosis
 CC and hypersensitivity pneumonitis), transplantation associated diseases
 CC including graft rejection and graft-versus-host diseases.

XX Sequence 124 AA;

Query Match 99.2%; Score 650; DB 22; Length 124;
 Best Local Similarity 99.2%; Pred. No. 5, 8e-69;
 Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFGLNPLSLPLDSREISFQLSAPHEARLTPPELEERSLQIIPML 60
 DB 1 MYKLASCCLLFGLNPLSLPLDSREISFQLSAPHEARLTPPELEERSLQIIPML 60
 QY 61 GAERGDLRKADSSSTNFRGNLKRKFQDSGDDPNLLSHLARIMKPKYKRPCEFW 120
 DB 61 GAERGDLRKADSSSTNFRGNLKRKFQDSGDDPNLLSHLARIMKPKYKRPCEFW 120
 QY 121 KYCV 124
 DB 121 KYCV 124

Db 121 KYCV 124

RESULT 7
 ABG34042
 ID ABG34042 standard; Protein; 124 AA.

XX ABG34042;

DT 15-JUL-2002 (first entry)

DE Human Pro peptide #13.

XX Human; PRO; secreted protein; transmembrane protein;
 KW genetic disorder; tumour; cancer.

OS Homo sapiens.

PN WO200224888-A2.

XX 28-MAR-2002.

PF 29-AUG-2001; 2001WO-US27099.

XX 01-SEP-2000; 2000US-229896P.
 PR 05-SEP-2000; 2000US-230621P.
 PR 22-SEP-2000; 2000US-235147P.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 12-JAN-2001; 2001US-261878P.
 PR 16-JAN-2001; 2001US-261910P.
 PR 16-JAN-2001; 2001US-261939P.
 PR 16-JAN-2001; 2001US-262150P.
 PR 25-JAN-2001; 2001US-264395P.
 PR 02-FEB-2001; 2001US-26421P.
 PR 09-FEB-2001; 2001US-267623P.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 09-MAR-2001; 2001US-274399P.
 PR 03-APR-2001; 2001US-280982P.
 PR 04-APR-2001; 2001US-282129P.
 PR 04-APR-2001; 2001US-282199P.
 PR 09-MAY-2001; 2001US-290589P.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.

XX (GETH) GENENTECH INC.

XX Baker KP, Eaton DL, Filvaroff E, Grimaldi JC;
 PI Gurney AL, Smith V, Stephan J, Watanabe CK, Wood WI, Zhang Z;
 PI Fong S;

DR WPI: 2002-362426/39.
 DR N-PSDB: ABB69973.

XX New PRO polypeptides and polynucleotides encoding the polypeptides,
 PT useful in gene therapy, chromosome identification, tissue typing, or
 PT for genetic analysis of individuals with genetic disorders -
 XX Claim 11; Figure 26; 218pp; English.

XX This invention relates to the cDNA and protein sequences of novel
 CC secreted and transmembrane polypeptides PRO polypeptides. The
 CC invention also comprises a method for producing the proteins of the
 CC of the invention. The antibody may be used for detecting the PRO
 CC proteins of the invention and may be used to modify their activity.
 CC polynucleotides may be used as hybridisation probes for a cDNA library
 CC to isolate the full-length PRO cDNA or to isolate other cDNAs, to
 CC construct hybridisation probes for mapping the gene which encodes that
 CC PRO and for genetic analysis of individuals with genetic disorders, in
 CC assays to identify other proteins or molecules involved in binding

Best Local Similarity 99.2%; Pred. No. 5.8e-69;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60
Db 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60

QY 61 GAERGDILRKADSSNTINFPRGNLRKFQDFSGQDPNILLSHLARIWKPKKRETPDCFW 120
Db 61 GAERGDILRKADSSNTINFPRGNLRKFQDFSGQDPNILLSHLARIWKPKKRETPDCFW 120

QY 121 KYCV 124
Db 121 KYCV 124

RESULT 5
AAB65230
ID AAB65230 standard; Protein: 124 AA.
XX
AC AAB65230;
XX
DT 02-APR-2001 (first entry)
XX
DE Human PRO1068 (UNQ525) protein sequence SEQ ID NO:266.
XX
KW Human; secreted and transmembrane protein; PRO; cytosolic;
KW cell death; cancer; chromosomal mapping; gene mapping; tissue typing;
KW diagnostic assay.
XX
OS Homo sapiens.
XX
PN MO200073454-A1.
PD
XX 07-DEC-2000.
PE
PF 30-MAR-2000; 2000MO-US08439.
XX
PR 02-JUN-1999; 99MO-US12252.
PR 23-JUN-1999; 99US-0141037.
PR 07-JUL-1999; 99US-0143048.
PR 20-JUL-1999; 99US-0144758.
PR 26-JUL-1999; 99US-0145698.
PR 28-JUL-1999; 99US-0146222.
PR 17-AUG-1999; 99US-0149396.
PR 15-SEP-1999; 99MO-US21090.
PR 15-SEP-1999; 99MO-US21547.
PR 08-OCT-1999; 99MO-US158663.
PR 30-NOV-1999; 99MO-US28301.
PR 01-DEC-1999; 99MO-US28301.
PR 16-DEC-1999; 99MO-US30095.
PR 20-DEC-1999; 99MO-US30911.
PR 05-JAN-2000; 2000MO-US00219.
PR 06-JAN-2000; 2000MO-US00376.
PR 11-FEB-2000; 2000MO-US03565.
PR 18-FEB-2000; 2000MO-US04341.
PR 22-FEB-2000; 2000MO-US04414.
PR 24-FEB-2000; 2000MO-US04914.
PR 24-FEB-2000; 2000MO-US05004.
PR 02-MAR-2000; 2000MO-US05841.
PR 15-MAR-2000; 2000MO-US06884.
PR 20-MAR-2000; 2000MO-US07377.
XX
PA (GENE) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;
PI Ferrara N, Fong S, Gertler H, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoi NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
DR WPI: 2001-032160/04.
DR N-PSDB; AAF44193.

XX PRO polynucleotides used to produce polypeptides used to target
PT bioactive molecules such as toxins, radiolabels or antibodies, to
PT specific cells, to cause targeted cell death.
XX
PS Claim 12; Fig 184; 935pp; English.
XX
XX The present invention describes human secreted and transmembrane PRO
CC proteins. The PRO proteins have cytosolic activity. The PRO proteins
CC can be used for targeted delivery of bioactive molecules, such as
CC toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide
CC sequences, and their fragments, can be used as hybridisation probes, in
CC chromosomal and gene mapping, and in the generation of anti-sense RNA
CC and DNA. They may also be used to produce transgenic animals which are
CC used to develop and screen therapeutically useful reagents. The PRO
CC nucleotide and protein sequence can be used for tissue typing and in
CC treating cancer. Anti-PRO antibodies can be used in diagnostic assays.
CC AAF44270 to AAF44470 represent PCR primers and hybridisation probes used
CC in the isolation of human PRO sequences. AAF44087 to AAF44269 and
CC AAB65154 to AAB65300 represent human PRO polynucleotide and protein
CC sequences given in the exemplification of the present invention.
XX
SQ Sequence 124 AA;
XX

Query Match 99.2%; Score 650; DB 22; Length 124;
Best Local Similarity 99.2%; Pred. No. 5.8e-69;
Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60
Db 1 MYKLASCCLLFTGFLNPLSLPLDLSREISFQLSAPHEDARLTPEELERASLLQILPEML 60

QY 61 GAERGDILRKADSSNTINFPRGNLRKFQDFSGQDPNILLSHLARIWKPKKRETPDCFW 120
Db 61 GAERGDILRKADSSNTINFPRGNLRKFQDFSGQDPNILLSHLARIWKPKKRETPDCFW 120

QY 121 KYCV 124
Db 121 KYCV 124

RESULT 6
AAB50919
ID AAB50919 standard; Protein: 124 AA.
XX
AC AAB50919;
XX
DT 21-MAR-2001 (first entry)
XX
DE Human PRO1068 protein.
XX
KW Human; PRO; antiinflammatory; dermatological; antiarthritic;
KW antirheumatic; cardiant; antianaemic; immunosuppressive; antithyroid;
KW antidiabetic; nootropic; neuroprotective; hepatotropic; vituicide;
KW anti-allergic; antistatic; immune related disorder;
KW hepatobiliary disease; autoimmune disease; allergy.
XX
OS Homo sapiens.
XX
PN MO200073452-A2.
PD
XX 07-DEC-2000.
PE
PF 02-JUN-2000; 2000MO-US15264.
XX
PR 02-JUN-1999; 99MO-US12252.
PR 20-JUL-1999; 99US-0144732.
PR 20-JUL-1999; 99US-0144758.
PR 28-JUL-1999; 99US-0146222.
PR 01-SEP-1999; 99MO-US20111.
PR 15-SEP-1999; 99MO-US21090.
PR 15-SEP-1999; 99MO-US21547.
PR 29-OCT-1999; 99US-0162506.

PR 16-SEP-1998: 980S-0100634.
 PR 12-JAN-1999: 990S-0115565.
 XX
 XX (GETH) GENENTECH INC.
 XX
 PI Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
 PI Wood WI, Yuan J;
 DR WPI: 2000-072883/06.
 DR N-PSDB; AAZ65047.
 XX
 PT Membrane-bound proteins and related nucleotide sequences
 XX
 PS claim 12; Fig 184; 822pp: English.
 XX
 CC The invention provides membrane-bound PRO polypeptides and
 CC polynucleotides encoding them. The PRO sequences of the invention were
 CC identified based on extracellular domain homology screening. The PRO
 CC sequences have homology with proteins including LDL receptors, TIE
 CC ligands and various enzymes. The membrane-bound proteins and receptor
 CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
 CC immunoadhesins, for instance, can be used as therapeutic agents to block
 CC receptor-ligand interactions. The membrane-bound proteins can also be
 CC employed for screening of potential peptide or small molecule inhibitors
 CC of the relevant receptor/ligand interaction. The PRO encoding sequences
 CC are useful as hybridization probes, in chromosome and gene mapping and in
 CC the generation of antisense RNA and DNA. PRO nucleic acid sequences
 CC will also be useful for the preparation of PRO polypeptides, especially
 CC by recombinant techniques.
 CC
 XX
 XX Sequence 124 AA;
 SQ
 Query Match 99.2%; Score 650; DB 21; Length 124;
 Best Local Similarity 99.2%; Pred. No. 5,8e-69;
 Matches 123; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYKLASCLLFTIGFLNPLSLPLDLSREISFQLSAPHEDARTPELEBASILLQLEPML 60
 DB 1 MYKLASCLLFTIGFLNPLSLPLDLSREISFQLSAPHEDARTPELEBASILLQLEPML 60
 QY 61 GAERGDILRRKADSSNTINPRGNLRRKFDQSGDPNILLSHLLATIMPKRRTPDCFW 120
 DB 61 GAERGDILRRKADSSNTINPRGNLRRKFDQSGDPNILLSHLLATIMPKRRTPDCFW 120
 QY 121 KYCV 124
 DB 121 KYCV 124

RESULT 4
 AAB20118
 ID AAB20118 standard; Protein; 124 AA.
 XX
 AC AAB20118;
 XX
 DT 30-APR-2001 (first entry)
 XX
 DE Human immunostimulant PRO1068.
 XX
 KW PRO1068: human; immune disease; autoimmune disease;
 KW antirheumatic; antiarthritic; antiinflammatory; antianaemic;
 KW immunosuppressive; antithyroid; antidiabetic; neuroprotective;
 KW hepatotropic; virucide; dermatological; antiproliferative;
 KW antiallergic; antiallergic; immunostimulant.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..20
 FT Protein /label= signal_peptide
 FT /label= 21..124
 FT /label= Mature_protein
 FT Modified-site 61..67

FT
 FT Modified-site /note= "N-myristoylation site"
 FT 92..98
 FT /note= "N-myristoylation site"
 FT Modified-site /note= "N-myristoylation site"
 FT 112..116
 FT /note= "CAMP- and CGMP-dependent protein kinase
 FT phosphorylation site"
 FT Region 118..124
 FT /note= "urotensin II signature"
 FT Region 64..67
 FT /note= "cell attachment sequence"
 XX
 PN WO200105972-A1.
 XX
 PD 25-JAN-2001.
 XX
 PF 15-MAR-2000; 2000WO-US06884.
 XX
 PR 20-JUL-1999: 990S-0144758.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Fong S, Goddard A, Godowski PJ, Gurney AL;
 PI Hillan KJ, Mark MR, Marsters SA, Pileri RM, Tumas D, Watanabe CK;
 PI Wood WI;
 XX
 DR WPI: 2001-103149/11.
 DR N-PSDB; AAF30060.
 XX
 PT New PRO polypeptides, nucleic acids and (ant)agonists, useful for
 PT diagnosing and treating immune-related disorders, such as multiple
 PT sclerosis, rheumatoid arthritis and diabetes -
 XX
 XX Claim 20; Fig 22; 127pp: English.

The present sequence is that of novel human immunomodulator PRO1068 (UNQ525), as deduced from cDNA (see AAF30060) isolated from a database screening. PRO1068 has a mol. wt. of 14 kDa and a pI of 8.14. The invention provides polynucleotides (see AAF30050-62) encoding novel human PRO proteins (see AAB20108-20) including PRO1068. Claimed compositions comprising these proteins or their agonists are useful for increasing infiltration of inflammatory cells into a tissue of a mammal, stimulating or enhancing an immune response, or increasing the proliferation of T-lymphocytes in a mammal in response to an antigen. Claimed compositions comprising a PRO polypeptide or its antagonist have the opposite effect. A claimed method for treating an immune related disorder, such as a T cell disorder, involves administering a PRO polypeptide, an agonist antibody or an antagonist antibody. The disorder is selected from autoimmune diseases (such as asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity and urticaria), immunologic diseases of the lung and transplantation associated diseases (such as graft rejection and graft-versus-host disease) (all claimed). Claimed methods of diagnosing these disorders comprise detecting the level of expression of the PRO gene. Also claimed are a method of identifying a compound capable of inhibiting the expression or activity of the PRO polypeptide, vectors, host cells, antibodies, and a method of stimulating the proliferation of T lymphocytes using PRO1068.

Sequence 124 AA;
 SQ
 Query Match 99.2%; Score 650; DB 22; Length 124;

PR	24-JUN-1998;	98US-00905535;
PR	24-JUN-1998;	98US-00905538;
PR	24-JUN-1998;	98US-00905540;
PR	24-JUN-1998;	98US-00905577;
PR	25-JUN-1998;	98US-00906178;
PR	25-JUN-1998;	98US-00906786;
PR	25-JUN-1998;	98US-00906888;
PR	25-JUN-1998;	98US-00906960;
PR	25-JUN-1998;	98US-00906961;
PR	25-JUN-1998;	98US-00906964;
PR	25-JUN-1998;	98US-00906955;
PR	26-JUN-1998;	98US-00906862;
PR	26-JUN-1998;	98US-00908653;
PR	01-JUL-1998;	98US-00913358;
PR	01-JUL-1998;	98US-00913600;
PR	01-JUL-1998;	98US-00915444;
PR	02-JUL-1998;	98US-00914748;
PR	02-JUL-1998;	98US-00914866;
PR	02-JUL-1998;	98US-00915169;
PR	02-JUL-1998;	98US-00916266;
PR	02-JUL-1998;	98US-00916288;
PR	02-JUL-1998;	98US-00916328;
PR	02-JUL-1998;	98US-00916333;
PR	02-JUL-1998;	98US-00916466;
PR	07-JUL-1998;	98US-00916773;
PR	07-JUL-1998;	98US-00919788;
PR	09-JUL-1998;	98US-00921882;
PR	10-JUL-1998;	98US-00921982;
PR	20-JUL-1998;	98US-00924772;
PR	30-JUL-1998;	98US-00946511;
PR	04-AUG-1998;	98US-00952882;
PR	04-AUG-1998;	98US-00952885;
PR	04-AUG-1998;	98US-00953011;
PR	04-AUG-1998;	98US-00953032;
PR	04-AUG-1998;	98US-00953188;
PR	04-AUG-1998;	98US-00953321;
PR	10-AUG-1998;	98US-00959519;
PR	10-AUG-1998;	98US-00959529;
PR	10-AUG-1998;	98US-00960112;
PR	11-AUG-1998;	98US-00961443;
PR	11-AUG-1998;	98US-00961456;
PR	12-AUG-1998;	98US-00963379;
PR	17-AUG-1998;	98US-00967577;
PR	17-AUG-1998;	98US-00967666;
PR	17-AUG-1998;	98US-00967733;
PR	17-AUG-1998;	98US-00967791;
PR	17-AUG-1998;	98US-00968895;
PR	17-AUG-1998;	98US-00968891;
PR	17-AUG-1998;	98US-00968944;
PR	17-AUG-1998;	98US-00968995;
PR	18-AUG-1998;	98US-00969559;
PR	18-AUG-1998;	98US-00969660;
PR	18-AUG-1998;	98US-00970222;
PR	20-AUG-1998;	98US-00971741;
PR	24-AUG-1998;	98US-00972218;
PR	26-AUG-1998;	98US-00973651;
PR	26-AUG-1998;	98US-00973652;
PR	26-AUG-1998;	98US-00973954;
PR	26-AUG-1998;	98US-00973955;
PR	26-AUG-1998;	98US-00973971;
PR	26-AUG-1998;	98US-00973974;
PR	26-AUG-1998;	98US-00973978;
PR	26-AUG-1998;	98US-00973979;
PR	26-AUG-1998;	98US-00973986;
PR	31-AUG-1998;	98US-00980545;
PR	31-AUG-1998;	98US-00980555;

PR	26-JUN-1998:	98US-0090762.
PR	31-JUL-1998:	98US-0094983.
PR	01-OCT-1998:	98US-0102686.
PR	11-DEC-1998:	98US-0112129.
XX		
PA	(INCY-), INCYTE PHARM INC.	
XX		
PI	Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR,	
PI	Akerman IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL,	
PI	Bandman O;	
XX		
DR	WPI: 2000-160673/14.	
DR	N-PSDB: AAZ98204.	
XX		
PT	New human signal peptide-containing proteins useful in treatment,	
PT	prevention and diagnosis of e.g. cancer, inflammation and	
PT	cardiovascular disease	
XX		
PS	Claim 1: Page 221-222: 327pp; English.	
XX		
CC	AAZ98109 to AAZ98242 encode AAY87224 to AAY87357 which represent the	
CC	human signal peptide-containing proteins HSPP-1 to HSPP-134. HSPPs have	
CC	antigenic, anti-inflammatory, antimicrobial, neurotropic, hepatotropic,	
CC	neuroprotective, cardiovascular and antitachycardic activities, and can	
CC	be used in gene therapy. HSPPs can be used to treat or prevent disorders	
CC	associated with decreased activity or function of HSP. Antagonists of	
CC	HSP are used to treat or prevent disorders associated with increased	
CC	activity or function of HSP. Such diseases include cell proliferation	
CC	(including cancer), inflammation, cardiovascular, neurological,	
CC	reproductive or developmental disorders, (e.g. arteriosclerosis,	
CC	clitrosis, psoriasis, acquired immune deficiency syndrome, anaemia,	
CC	asthma, Crohn's disease, microbial or other infections, congestive or	
CC	ischemic heart disease, Alzheimer's, Parkinson's or Huntington's	
CC	diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSP	
CC	nucleic acids can be used for the recombinant production of HSP, for	
CC	detecting HSP in standard hybridisation and amplification assays (for	
CC	diagnosis and monitoring), in gene therapy, as antisense,	
CC	triplex-forming or ribozyme therapeutics, for detecting related sequences	
CC	or genetic variations, and for chromosomal mapping. HSP are also used to	
CC	raise specific antibodies (Ab) and to screen for agonists and	
CC	antagonists (potential therapeutic agents). Ab are used to diagnose, or	
CC	monitor, HSP-related diseases (in usual immunoassays), as therapeutic	
CC	antagonists, in competitive drug screens, and for purification of HSP	
CC	from natural sources.	
XX		
SO	Sequence 124 AA:	
	Query Match 100.0%; Score 655; DB 21; Length 124;	
	Best Local Similarity 100.0%; Pred. No. 1,5e-69;	
	Matches 124; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	i MYKASCLLTIGFLNPLSLPLDLSREISQLSAPHEDARLTPELERASLQLPML 60	
Db	1 MYKASCLLTIGFLNPLSLPLDLSREISQLSAPHEDARLTPELERASLQLPML 60	
QY	61 GAERDILRRKADSSNINPNRGNLRKFDDFGODPNILLSHLRIATMKPKRPPDCFW 120	
Db	61 GAERDILRRKADSSNINPNRGNLRKFDDFGODPNILLSHLRIATMKPKRPPDCFW 120	
QY	121 KYCV 124	
Db	121 KYCV 124	
XX		
AC	AAV6707;	
XX		
PT	05-APR-2000 (first entry)	
DE	Membrane-bound protein PRO1068.	

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Search completed: March 10, 2003, 17:48:11
Job time : 12.3946 secs

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/449,699A
FILING DATE: 24-MAY-1995
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/147,023
FILING DATE: 01-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMUND R.
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: STK-001CP6CN
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/248-7000
TELEFAX: 617/248-7100
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 408 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-449-699A-15

Query Match 10.5%; Score 69; DB 2; Length 408;
Best Local Similarity 25.2%; Pred. No. 5.3;
Matches 34; Conservative 15; Mismatches 50; Indels 36; Gaps 5;

QY 22 PLDSREISFOLSNPHEDARLTPEELE-----RASLQILPEMIG----- 61
DB 126 PRYHHRERFDLSKIPGEAVTAEFRIYKDYIRERFDNETFRISYQVQLQENHGRESDL 185
QY 62 -----AERGDILRKADSSN--IFNPGNL---RKQDFSGODPILLSHLARI 106
DB 186 FLDSRTLMASEGWLVDITATSNHVVNPRHNLGLQLSVETLDGOSINPKLAGLIGR- 244
QY 107 WKPYKKRETPDCFWK 121
DB 245 HGFONKQPFMVAFFK 259

RESULT 15
US-07-841-646-2
Sequence 2, Application US/07841646
Patent No. 5266683
GENERAL INFORMATION:
APPLICANT: OPPERMAN, HERMANN
APPLICANT: OZKAYNAK, ENGIN
APPLICANT: KUBERASAMPATH, THANGAVEL
APPLICANT: RUEGER, DAVID C.
APPLICANT: PANG, ROY H.L.
TITLE OF INVENTION: OSTEOGENIC DEVICES
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: 53 STATE STREET
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: U.S.A.
ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/841,646
FILING DATE: 19920221
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 810,560
FILING DATE: 20-DEC-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 827,052
FILING DATE: 28-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 660,162
FILING DATE: 22-FEB-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 621,988
FILING DATE: 04-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 621,849
FILING DATE: 04-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 616,374
FILING DATE: 21-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 600,024
FILING DATE: 18-OCT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 599,543
FILING DATE: 18-OCT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 579,865
FILING DATE: 07-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 569,920
FILING DATE: 20-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 483,913
FILING DATE: 22-FEB-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 422,613
FILING DATE: 17-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 315,342
FILING DATE: 23-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 232,630
FILING DATE: 15-AUG-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 179,460
FILING DATE: 08-APR-1988
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMUND R.
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: CRP-001CP6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/248-7000
TELEFAX: 617/248-7100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 431 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-841-646-2

Query Match 10.5%; Score 69; DB 1; Length 431;
Best Local Similarity 25.2%; Pred. No. 5.7;
Matches 34; Conservative 15; Mismatches 50; Indels 36; Gaps 5;

QY 22 PLDSREISFOLSNPHEDARLTPEELE-----RASLQILPEMIG----- 61
DB 149 PRYHHRERFDLSKIPGEAVTAEFRIYKDYIRERFDNETFRISYQVQLQENHGRESDL 208
QY 62 -----AERGDILRKADSSN--IFNPGNL---RKQDFSGODPILLSHLARI 106
DB 209 FLDSRTLMASEGWLVDITATSNHVVNPRHNLGLQLSVETLDGOSINPKLAGLIGR- 267
QY 107 WKPYKKRETPDCFWK 121
DB 268 HGFONKQPFMVAFFK 282

CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: 53 STATE STREET
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: U.S.A.
ZIP: 02109

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.255

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447,570
FILING DATE: 21-FEB-1992
CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 810,560
FILING DATE: 20-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 827,052
FILING DATE: 28-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 660,162
FILING DATE: 22-FEB-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 621,988
FILING DATE: 04-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 621,849
FILING DATE: 04-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 616,374
FILING DATE: 21-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 600,024
FILING DATE: 18-OCT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 599,543
FILING DATE: 18-OCT-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 579,865
FILING DATE: 07-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 569,920
FILING DATE: 20-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 483,913
FILING DATE: 22-FEB-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 422,613
FILING DATE: 17-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 315,342
FILING DATE: 23-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 232,650
FILING DATE: 15-AUG-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 179,460
FILING DATE: 08-APR-1988

ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMOND R.
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: CRP-001CP6
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/248-7000
TELEFAX: 617/248-7100

INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 408 amino acids
TYPE: amino acid
TOPOLOGY: linear

Patent NO. 5266683
GENERAL INFORMATION:
APPLICANT: OPPERMAN, HERMANN
APPLICANT: OZKAYNAN, ENGIN
APPLICANT: KUBERASAMPATH, THANGAVEL
APPLICANT: RUEGER, DAVID C.
APPLICANT: PANG, ROY H.L.
TITLE OF INVENTION: OSTEOGENIC DEVICES
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBAUT
STREET: 53 STATE STREET
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: U.S.A.
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/841,646
FILING DATE: 19920221
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 810,560
FILING DATE: 20-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 827,052
FILING DATE: 28-JAN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 660,162
FILING DATE: 22-FEB-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 621,988
FILING DATE: 04-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 579,865
FILING DATE: 07-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 569,920
FILING DATE: 20-AUG-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 483,913
FILING DATE: 22-FEB-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 422,613
FILING DATE: 17-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 315,342
FILING DATE: 23-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 232,630
FILING DATE: 15-AUG-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 179,460
FILING DATE: 08-APR-1988
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMUND R.
REGISTRATION NUMBER: 27,829

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; REFERENCE/DOCKET NUMBER: CRP-001CP6
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617/248-7000
; TELEFAX: 617/248-7100
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 408 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-841-646-15

Query Match 10.5%; Score 69; DB 1; Length 408;
Best Local Similarity 25.2%; Pred. NO. 5.3;
Matches 34; Conservative 15; Mismatches 50; Indels 36; Gaps 5;

QY 22 PLDSREISFQLSAPHEEARLTPPEEL-----RASLIQILPEMLG----- 61
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Db 126 PRYHNRERFDLSLREGVAVTAAEFRIYKQIRERFDETFRISVYVQLQDHLGRESLD 185
      | | | | | | | | | | | | | | | | | | | | | | | |

QY 62 -----AERGIILRKADSSTN--IFNPRGNL---RKFDQESGQDPNILLSHLARI 106
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Db 186 FLUDSRITLWASEGGLVFDITATSNHWVNPFRNHLGLSLVETLGGQSNIPXLAGLIGR- 244
      : | : | : | : | : | : | : | : | : | : | : | : |

QY 107 WKPYKKRRETPDCENK 121
      | : | : | : | : | : | : | : | : | : | : | : |
Db 245 HGPNKKQPFMAVEFK 259
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RESULT 11
 US-08-147-023-15
 Sequence 15, Application US/08147023
 Patent No. 5468845
 GENERAL INFORMATION:
 APPLICANT: OPPERMAN, HERMANN
 APPLICANT: OKAYMANN, ENGEL
 APPLICANT: KUBERASAMPATH, THIANGAVEL
 APPLICANT: RUEGER, DAVID C.
 APPLICANT: PANG, ROY H.L.
 TITLE OF INVENTION: OSTEOGENIC DEVICES
 NUMBER OF SEQUENCES: 33
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: TESTA, HURWITZ & THIBEAULT
 STREET: 53 STATE STREET
 CITY: BOSTON
 STATE: MASSACHUSETTS
 COUNTRY: U.S.A.
 ZIP: 02109
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/147,023
 FILING DATE: 21-FEB-1992
 CLASSIFICATION: 530
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 810,560
 FILING DATE: 20-DEC-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 827,052
 FILING DATE: 28-JAN-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 660,162
 FILING DATE: 22-FEB-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 621,988
 FILING DATE: 04-DEC-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 621,849
 FILING DATE: 04-DEC-1990
 PRIOR APPLICATION DATA:

NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ratner & Prestia
STREET: P.O. Box 980
CITY: Valley Forge
STATE: PA
COUNTRY: USA
ZIP: 19482
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/232,857
FILING DATE: 15-JAN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/789,354
FILING DATE: 27-JAN-1997
APPLICATION NUMBER: 60/074,075
FILING DATE: 09-FEB-1998
APPLICATION NUMBER: 09/058,725
FILING DATE: 10-APR-1998
ATTORNEY/AGENT INFORMATION:
NAME: Prestia, Paul F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GP-50005-2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0700
TELEX: 846169
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-232-857-5

Query Match 11.3%; Score 74; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 114 ETPDCFWKVCV 124
Db 1 ETPDCFWKVCV 11

RESULT 8
US-09-477-071-5
Sequence 5, Application US/09477071
GENERAL INFORMATION:
APPLICANT: CULP, JEFFREY
APPLICANT: MCNULTY, DEAN
APPLICANT: ELLIS, CATHERINE
TITLE OF INVENTION: HUMAN UROTENSIN II
FILE REFERENCE: GP-70366-D2
CURRENT APPLICATION NUMBER: US/09/477,071
CURRENT FILING DATE: 2000-01-03
EARLIER APPLICATION NUMBER: 09/027,381
EARLIER FILING DATE: 1998-02-20
EARLIER APPLICATION NUMBER: 60/072,383
EARLIER FILING DATE: 1998-01-09
EARLIER APPLICATION NUMBER: 60/073,616
EARLIER FILING DATE: 1998-02-04
NUMBER OF SEQ ID NOS: 5
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 5
LENGTH: 11
TYPE: PRT

ORGANISM: HOMO SAPIENS
US-09-477-071-5

Query Match 11.3%; Score 74; DB 4; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.01;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 114 ETPDCFWKVCV 124
Db 1 ETPDCFWKVCV 11

RESULT 9
US-07-764-731B-10
Sequence 10, Application US/07764731B
Patent No. 5366875
GENERAL INFORMATION:
APPLICANT: Rosen, Vicki A.
APPLICANT: Wang, Elizabeth A.
APPLICANT: Mooney, John M.
TITLE OF INVENTION: Methods for Producing BMP-7 Proteins
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Legal Affairs, Genetics Institute, Inc.
STREET: 87 Cambridgepark Drive
CITY: Cambridge
STATE: MA
COUNTRY: USA
ZIP: 02140
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/764,731B
FILING DATE: 19910924
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Kapinos, Ellen J.
REGISTRATION NUMBER: 32,245
REFERENCE/DOCKET NUMBER: G15159B
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-876-1170
TELEFAX: 617-876-5851
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 400 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-764-731B-10

Query Match 10.5%; Score 69; DB 1; Length 400;
Best Local Similarity 25.2%; Pred. No. 5.2;
Matches 34; Conservative 15; Mismatches 50; Indels 36; Gaps 5;

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Db 118 PRYHRRERPLSKIPBEAVTAERFYKDYINERFNETFRISYGVVLOEHLGRESDL 177
QY 62 -----AERGDLEKRAKSTN--LENGRL--RKFODFGODPNILLHLARI 106
Db 178 FLDSRTLMASEGWLVDIATSNHVVNDRHNLGLSVETLDGOSINRKLGLGR- 236
QY 107 WKPYKKRTPDCFWK 121
Db 237 HGPONKOPFNVAFFK 251

RESULT 10
US-07-841-646-15
Sequence 15, Application US/07841646

Query Match	76.08; Score 498; DB 4; Length 103;
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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:37:08 ; Search time 11.3946 seconds
(without alignments)
320.191 Million cell updates/sec

Title: US-09-831-907A-1
Perfect score: 655
Sequence: 1 MYKIASCCLEFIFGLNPLLS.....RIMKPKKRETPDCFMKTCV 124

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BLOSUM62
Gap 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents.AA.*
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
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6: /cgn2_6/ptodata/2/1aa/backfilest.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	533.5	81.5	139 3 US-09-027-381-2	Sequence 2, Appl1
2	533.5	81.5	139 4 US-09-477-071-2	Sequence 2, Appl1
3	498	76.0	103 3 US-09-027-381-4	Sequence 4, Appl1
4	498	76.0	103 4 US-09-477-071-4	Sequence 4, Appl1
5	74	11.3	11 3 US-09-027-381-5	Sequence 5, Appl1
6	74	11.3	11 4 US-09-056-725B-5	Sequence 5, Appl1
7	74	11.3	11 4 US-09-232-857-5	Sequence 5, Appl1
8	74	11.3	11 4 US-09-477-071-5	Sequence 5, Appl1
9	74	11.3	11 4 US-07-764-731B-10	Sequence 5, Appl1
10	69	10.5	400 1 US-07-841-646-15	Sequence 10, Appl1
11	69	10.5	408 1 US-08-147-023-15	Sequence 15, Appl1
12	69	10.5	408 1 US-08-447-570-15	Sequence 15, Appl1
13	69	10.5	408 2 US-08-449-700-15	Sequence 15, Appl1
14	69	10.5	408 2 US-08-449-699A-15	Sequence 15, Appl1
15	69	10.5	431 1 US-07-841-646-2	Sequence 2, Appl1
16	69	10.5	431 1 US-07-901-703-2	Sequence 2, Appl1
17	69	10.5	431 1 US-07-539-756-4	Sequence 4, Appl1
18	69	10.5	431 1 US-08-147-023-2	Sequence 2, Appl1
19	69	10.5	431 1 US-08-206-864-2	Sequence 2, Appl1
20	69	10.5	431 1 US-08-278-729A-17	Sequence 17, Appl1
21	69	10.5	431 1 US-08-480-528A-4	Sequence 4, Appl1
22	69	10.5	431 1 US-08-479-666-4	Sequence 4, Appl1
23	69	10.5	431 1 US-08-155-343A-17	Sequence 17, Appl1
24	69	10.5	431 1 US-08-406-672-17	Sequence 17, Appl1
25	69	10.5	431 1 US-08-643-563A-17	Sequence 17, Appl1
26	69	10.5	431 1 US-08-447-570-2	Sequence 2, Appl1
27	69	10.5	431 1 US-08-643-763A-17	Sequence 17, Appl1

28	69	10.5	431 1 US-08-462-623-17	Sequence 17, Appl1
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30	69	10.5	431 2 US-08-459-346-2	Sequence 2, Appl1
31	69	10.5	431 2 US-08-445-468A-17	Sequence 17, Appl1
32	69	10.5	431 2 US-08-901-200A-4	Sequence 4, Appl1
33	69	10.5	431 2 US-08-481-337A-10	Sequence 10, Appl1
34	69	10.5	431 2 US-08-449-700-2	Sequence 2, Appl1
35	69	10.5	431 2 US-07-989-847-6	Sequence 6, Appl1
36	69	10.5	431 2 US-08-449-699A-2	Sequence 2, Appl1
37	69	10.5	431 2 US-08-696-268B-4	Sequence 4, Appl1
38	69	10.5	431 2 US-08-461-397A-17	Sequence 17, Appl1
39	69	10.5	431 2 US-08-912-088-17	Sequence 17, Appl1
40	69	10.5	431 3 US-08-278-730A-17	Sequence 17, Appl1
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43	69	10.5	431 3 US-08-445-467-17	Sequence 17, Appl1
44	69	10.5	431 3 US-08-480-515A-17	Sequence 17, Appl1
45	69	10.5	431 3 US-08-459-129-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-09-027-381-2
(Sequence 2, Application-us/09027381
Patent No. 6075137)
GENERAL INFORMATION:
APPLICANT: CULP, JEFFREY
APPLICANT: MCNUITY, DEAN
APPLICANT: ELLIS, CATHERINE
TITLE OF INVENTION: HUMAN UROTENSIN II
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: RATTNER & PRESTIA
STREET: P.O. BOX 980
CITY: VALLEY FORGE
STATE: PA
COUNTRY: USA
ZIP: 19482
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/027,381
FILING DATE: 20-FEB-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/072,383
FILING DATE: 09-JAN-1998
APPLICATION NUMBER: GP-70366-1P
FILING DATE: 04-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: PRESTIA, PAUL F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GP-70366
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0701
TELEX: 846169
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 139 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-027-381-2
Query Match 81.5%, Score 533.5, DB 3, Length 139;
Best Local Similarity 84.8%, Pred. No. 2, 1e-55;

PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
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PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254

PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
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PRIOR APPLICATION NUMBER: 60/090444
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PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
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PRIOR APPLICATION NUMBER: 60/090542
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PRIOR APPLICATION NUMBER: 60/090694
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PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
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PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 44.2%; Score 279.5; DB 9; Length 124;
Best local Similarity 49.6%; Pred. No. 1.4e-22;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

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DB 1 MYKLASCLLFTGLNLLSLPLDSREISFOLSAPBEDARLPEELERASLQILPEML 60
OY 61 GTEAESSLGADPSAEPIPTRGSLRK--ALTGDSNIVLSRLARTKQKQKHATAECF 118
DB 61 GAERGDIILKRAADSTNIENPGRNLRKFQDSGDPNILLSHLARIWKPYKKRET-PDCF 119
OY 119 WKYCI 123

DB 120 WKYCV 124

RESULT 10
US-09-989-734-266
Sequence 266, Application US/09989734
Publication No. US2003003531A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltzen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C64
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR APPLICATION NUMBER: 60/087607
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-19
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PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
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PRIOR APPLICATION NUMBER: 60/090254
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PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
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PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 44.28; Score 279.5; DB 9; Length 124;
Best Local Similarity 49.68; Pred. No. 1.4e-22;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

QY 1 MDRPFCCLFVGLNLSPPVDTGEMSLQFLVEENMLRALEELERTALLQTLROTV 60
DB 1 MYKLASCCLLFTGFLNLSPLDSREISFOLSPAPHEDALTPLEERASLLQILPEML 60
QY 61 GTEAEGSLGADPSAERTPTPGSLRK--ALTGDSNVVLSTLLARTKQKQKHGTAEBCF 118
DB 61 GAEGDILRKADSTNIFNPGNLKRFQDPSGDPNILLSLRLARIKPYKKRET-PDCF 119

QY 119 WKYCI 123
DB 120 WKYCV 124

RESULT 11
US-09-997-653-266
Sequence 266, Application US/09997653
Publication No. US20030008297A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC38
CURRENT FILING DATE: 2001-11-15
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR APPLICATION NUMBER: 60/087759
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252

PRIOR FILING DATE: 1998-06-22
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PRIOR APPLICATION NUMBER: 60/090355
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 44.28; Score 279.5; DB 9; Length 124;
Best Local Similarity 49.6%; Pred. No. 1,4e-22;
Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

QY 1 MDRVPECCILFVGLNPLLSFPYDTGEMSLQLPVLEENLRALRELEERTALLQTLQTV 60
DB 1 MYKLASCLLFTGFLNPLLSPLDSREISFQLSAPHEDRALPEELERASLQILPEML 60
QY 61 GTEAEGSLGADPAPAEPTPGSLRK--ALTNGDSNVVLSRLARTKORRKHGTAPECF 118
DB 61 GAERGDI LRADSSNTIFNPGNLRKFODESGODPNILLSHLARIKWPKYKKRET-PDCF 119

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OY 119 WKYCI 123
Db 120 WKYCV 124

RESULT 12

US-09-993-667-266
Sequence 266, Application US/09993667
Publication No. US20030022187A1
GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoli, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1c4
CURRENT APPLICATION NUMBER: US/09/993,667
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
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PRIOR FILING DATE: 1998-06-03
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026

PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089601
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
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PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
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PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22

Db	QY	119 WKYCI 123	120 WKYCV 124
Db	QY	119 WKYCI 123	120 WKYCV 124
<p>RESULT 13</p> <p>US-09-990-438-266</p> <p>Sequence 266, Application US/09990438</p> <p>Publication No. US20030027754A1</p> <p>GENERAL INFORMATION:</p> <p>APPLICANT: Ashkenazi, Avi J.</p> <p>APPLICANT: Baker, Kevin P.</p> <p>APPLICANT: Botstein, David</p> <p>APPLICANT: Desnoyers, Luc</p> <p>APPLICANT: Eaton, Dan L.</p> <p>APPLICANT: Ferrara, Napoleone</p> <p>APPLICANT: Fong, Sherman</p> <p>APPLICANT: Gerber, Hanspeter</p> <p>APPLICANT: Gerritsen, Mary E.</p> <p>APPLICANT: Goddard, Audrey</p> <p>APPLICANT: Godowski, Paul J.</p> <p>APPLICANT: Grimaldi, J. Christopher</p> <p>APPLICANT: Gurney, Austin L.</p> <p>APPLICANT: Kijavlin, Ivar J.</p> <p>APPLICANT: Napier, Mary A.</p> <p>APPLICANT: Pan, James</p> <p>APPLICANT: Paoni, Nicholas F.</p> <p>APPLICANT: Roy, Margaret Ann</p> <p>APPLICANT: Stewart, Timothy A.</p> <p>APPLICANT: Tumas, Daniel</p> <p>APPLICANT: Watanabe, Colin K.</p> <p>APPLICANT: Williams, P. Mickey</p> <p>APPLICANT: Wood, William I.</p> <p>APPLICANT: Zhang, Zemin</p> <p>TITLE OF INVENTION: Selected and Transmembrane Polypeptides and Nucleic</p> <p>TITLE OF INVENTION: Acids Encoding The Same</p> <p>FILE REFERENCE: P2730PIC3</p> <p>CURRENT APPLICATION NUMBER: US/09/990.438</p> <p>CURRENT FILING DATE: 2001-11-14</p> <p>PRIOR APPLICATION NUMBER: 60/049787</p> <p>PRIOR FILING DATE: 1997-06-16</p> <p>PRIOR APPLICATION NUMBER: 60/062250</p> <p>PRIOR FILING DATE: 1997-10-17</p> <p>PRIOR APPLICATION NUMBER: 60/065186</p> <p>PRIOR FILING DATE: 1997-11-12</p> <p>PRIOR APPLICATION NUMBER: 60/065311</p> <p>PRIOR FILING DATE: 1997-11-13</p> <p>PRIOR APPLICATION NUMBER: 60/066770</p> <p>PRIOR FILING DATE: 1997-11-24</p> <p>PRIOR APPLICATION NUMBER: 60/075945</p> <p>PRIOR FILING DATE: 1998-02-25</p> <p>PRIOR APPLICATION NUMBER: 60/078910</p> <p>PRIOR FILING DATE: 1998-03-20</p> <p>PRIOR APPLICATION NUMBER: 60/083322</p> <p>PRIOR FILING DATE: 1998-04-28</p> <p>PRIOR APPLICATION NUMBER: 60/084600</p> <p>PRIOR FILING DATE: 1998-05-07</p> <p>PRIOR APPLICATION NUMBER: 60/087106</p> <p>PRIOR FILING DATE: 1998-05-28</p> <p>PRIOR APPLICATION NUMBER: 60/087607</p> <p>PRIOR FILING DATE: 1998-06-02</p>			

1 PRIOR APPLICATION NUMBER: 60/088021
2
3 PRIOR FILING DATE: 1998-06-02
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5 PRIOR APPLICATION NUMBER: 60/067759
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7 PRIOR FILING DATE: 1998-06-02
8
9 PRIOR APPLICATION NUMBER: 60/087827
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1 PRIOR FILING DATE: 1998-06-03
2
3 PRIOR APPLICATION NUMBER: 60/088021
4
5 PRIOR FILING DATE: 1998-06-04
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7 PRIOR APPLICATION NUMBER: 60/088025
8
9 PRIOR FILING DATE: 1998-06-04

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Query Match 44.2%; Score 279.5; DB 9; Length 124;
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Matches 62; Conservative 16; Mismatches 44; Indels 3; Gaps 2;

OY 1 MDRVPCCLLFVGLNPLSPVYDTGEMSLQPLVEENALRALLELERTALLQTLRQTV 60
Db 1 MYKLASCLLFTGFLNPLSLPLDSREISFQLSAPHEDARLTPEELERSLQILPEML 60
OY 61 GTEAGSLGQADPADSAETPTPGSLRK--ALTGQDSNTVLSRLARTKROKROHGTAFECF 118

DB 61 GABRGDLRKADSTNIFNRCNLRRFODFSGDPNILLSHLLARLWKPKYKRET-PDCE 119
QY 119 WKYCI 123
DB 120 WKYCV 124

RESULT 14
US-09-990-562-266
Sequence 266, Application US/09990562
Publication No. US20030027985A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paonl, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C18
CURRENT APPLICATION NUMBER: US/09/990,562
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Matches 62;	Conservative 16;	Mismatches 44;	Indels 3;	Gaps 2

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QY      1 MDRVPECCLLFVGLNPILISPVMTDGEMSIQLPVLEENALRALEEALERTALLQTLRQTV 600
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Db      1 MYKLASCCLLPTGFLNPILSLPLDSREISQLSAPHPEDARLTPEELERASSLQILPEML 600

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Tue Mar 11 10:10:21 2003

us-09-831-907a-30.rapb

Page 23

QY 61 GTEAGSGAGDPPSAETTPPGSLRK--ALTGQDSNTVLSRLARTKQKRGHTAPECF 118
DB 61 GAERKDLIRKADSSNTINFPNGNLRLKRFQDSGQDPNILLSRLARLWKPKYKRET-PDCC 119
QY 119 WKYCL 123
DB 120 WKYCV 124

Search completed: March 10, 2003, 17:48:53
Job time : 9.64054 secs

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Query Match	16.48;	Score 104;	DB 2;	Length 125;
Best Local Similarity	25.88;	Pred. No. 0.0054;		
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14 LUNPLSF-----PVTDTGMSIQD-VLEENALRALPELERTALQTIROM 59				

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Db      2 MCNLLSEFVLLSCTHLVAHPVTDADMTYSCGPDSEEGVSGPDDFAVSDLLNDLQRA 61
QY      60 VGTAEAGSLGQADPSAETPPPPGSLRKALTGQDSNTVLSRLIARTKOROKHGTAPECFW 119
Db      62 AVVEYSPILSENKIVPQKPKKALRELLLEKPYRLIPPGLMGSRQFRKRGGADCFW 121
QY      120 KYCT 123
Db      122 KYCV 125

RESULT 3
AG1627
single-stranded-DNA-specific exonuclease (RecJ) homolog 11n1560 (imported) - Listeria in
C:Species: Listeria innocua
C>Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 27-Nov-2001
C:Accession: AG1627
R:Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloeker,
.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entlian, K.D.; Fsihl, H.
D.; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A:Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkai, G.; Madueno, E.; Maitournam, A.; Me
ok, C.; Schlueter, T.; Simoes, N.; Tlerez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehlend,
A:Title: Comparative genomics of Listeria species.
A:Reference number: AB1077; MUID:21537279; PMID:11679669
A:Accession: AG1627
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-783 <GLA>
A:Cross-references: GB:AL592022; PIDN:CAC96791.1; PID:916414047; GSPDB:GN00178
A:Experimental source: strain C11p11262
C:Genetics:
A:Gene: 11n1560

Query Match          13.5%; Score 85.5; DB 2; Length 783;
Best Local Similarity 31.9%; Pred. No. 2.9;
Matches 37; Conservative 16; Mismatches 36; Indels 27; Gaps 6;

QY      9 LLEFGLNPLSPVYTDGEMSLQLPV--LEENALRALEELERTALL--QTLRQTVG-- 61
Db      221 LVAVGTVDLV--LTDENRLVQLGRLQRLRENANGLAVLAKKSLKEATEETIGFG 278

QY      62 ----TEAGSLGQADPSAE--TPPPGSLRKALTGQDSNTVLSRLIARTKOROKO 110
Db      279 LARLNAVGRILPADPADLLEDEPEALFLAEELIDAN-----KERKO 323

RESULT 4
S10706
urotensin II precursor - European flounder (fragments)
C:Species: platichthys flesus (European flounder)
C>Date: 19-Mar-1997 #sequence_revision 21-Nov-1998 #text_change 21-Nov-1998
C:Accession: S10706
R:Conlon, J.M.; Arnold-Reed, D.; Balmert, R.J.
FEBS Lett. 266, 37-40, 1990
A:Title: Post-translational processing of prepro-urotensin II.
A:Reference number: S10706; MUID:90306357; PMID:2365069
A:Accession: S10706
A:Molecule type: protein
A:Residues: 1-83 <CON>
A:Experimental source: urophysse
C:Superfamily: urotensin II
C:Keywords: neuropeptide; osmoregulation
F:1-71/Product: urotensin II #status experimental <MAT>
F:72-83/Domain: carboxyl-terminal propeptide #status experimental <PRO>
F:77-82/Disulfide Bonds: #status predicted

Query Match          13.4%; Score 85; DB 2; Length 83;
Best Local Similarity 27.5%; Pred. No. 0.23;
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QY      22 PVTDGEMSLQLPV--LEENALRALEELERTALLQTLRQTVGTEAGSLGQADPSAETPTP 80

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Db      2 PITSEAMPYPGPAASLERGSGJDDL-----SLSEON-----TPPQ 38
QY      81 RG-----SLRKALTGQDSNTVLSRLIARTKOROKHGTAPECFWKYCI 123
Db      39 RGAGLRATLEVLLEKOSLNFPSRVFG-----IRKQFAGTTECFWKYCV 83

RESULT 5
G70767
probable helicase hely - Mycobacterium tuberculosis (strain H37Rv)
C:Species: Mycobacterium tuberculosis
C>Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 22-Oct-1999
C:Accession: G70767
R:Coloe, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gordon
.; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.; Holroyd,
Rajandream, M.A.; Rogers, J.; Rutter, S.; Seegeer, K.; Skelton, S.; Squares, S.
Nature 393, 537-544, 1998
A:Authors: Squares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G.
A:Title: Deciphering the biology of Mycobacterium tuberculosis from the complete geno
A:Reference number: A70500; MUID:98295987; PMID:9634230
A:Accession: G70767
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-906 <COL>
A:Cross-references: GB:273966; GB:AL123456; MID:93261577; PIDN:CAA98204.1; PID:e24701
A:Experimental source: strain H37Rv
C:Genetics:
A:Gene: hely

Query Match          12.9%; Score 81.5; DB 2; Length 906;
Best Local Similarity 32.8%; Pred. No. 8.5;
Matches 39; Conservative 9; Mismatches 48; Indels 23; Gaps 7;

QY      11 FVGLL--NPLSPVYTD--TGEMSLQLPVLEENALRALEELERTALLQTLR----- 57
Db      711 FVGLTEREFIDGPAVDPTDGLRLARITSESDLVAECL--RGAMGCLKPAELAGVV 769

QY      58 QTVGTAEAGSLGQADP--SAETPPGSLRKALTGQDSNTVLSRLIARTKOROKHGTA 115
Db      770 SAVVETRGCDGQGAFCADVPTPR--LRQAL-----TQTSRLSTYLRADQAHRTTP 820

RESULT 6
AE1265
single-stranded-DNA-specific exonuclease (RecJ) homolog 1m01525 (imported) - Listeria
C:Species: Listeria monocytogenes
C>Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 27-Nov-2001
C:Accession: AE1265
R:Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloec
.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entlian, K.D.; Fsihl,
D.; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A:Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkai, G.; Madueno, E.; Maitournam, A.;
ok, C.; Schlueter, T.; Simoes, N.; Tlerez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehla
A:Title: Comparative genomics of Listeria species.
A:Reference number: AB1077; MUID:21537279; PMID:11679669
A:Accession: AE1265
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-783 <GLA>
A:Cross-references: GB:NC_003210; PIDN:CAC99603.1; PID:916410954; GSPDB:GN00177
A:Experimental source: strain EGD-e
C:Genetics:
A:Gene: 1m01525

Query Match          12.7%; Score 80.5; DB 2; Length 783;
Best Local Similarity 31.0%; Pred. No. 8.9;
Matches 36; Conservative 17; Mismatches 36; Indels 27; Gaps 6;

QY      9 LLEFGLNPLSPVYTDGEMSLQLPV--LEENALRALEELERTALL--QTLRQTVG-- 61
Db      221 LVAVGTVDLV--LTDENRLVQLGRLQRLRESANGLAVLAKKSLKEATEETIGFG 278

```

QY 62 ----TEAGSLGADPSAE---PTPRGSLRKALTGDSNTVLSRLARTKORQ 110
Db 279 LAPRLNAGVGLGADPADLITLLEDEPEALFLAEETIDAN-----KERQ 323

RESULT 7

F75530
ribonuclease - Deinococcus radiodurans (strain R1)
C:Species: Deinococcus radiodurans
C:Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 17-Mar-2000
C:Accession: F75530
R:White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.J.;
S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
A:Title: Genome sequence of the radioresistant bacterium Deinococcus radiodurans R1.
A:Reference number: A75250; MUID:20036896; PMID:10567266
A:Accession: F75530
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-760 <WHI>
A:Cross-references: GB:AE001895; GB:AE000513; NID:96458024; PIDN:AAF09933.1; PID:9645802
A:Experimental source: strain R1
C:Genetics:
A:Gene: DR0353
A:Map position: 1
C:Superfamily: virulence-associated protein vacB homolog

Query Match 12.2%; Score 77.5; DB 2; Length 760;
Best Local Similarity 27.8%; Pred. No. 17;
Matches 32; Conservative 15; Mismatches 39; Indels 29; Gaps 5;

QY 23 VDTGEMSLQPLVLEENLRALREELRTA-----LQTLRQT 59
Db 433 VDKGRMEL-PIREETLRGMEDLMLANKVAAHYLIEREPTLRHEEPTLRKQDVP 491

QY 60 VGTAEGLSGADPSAETPTPRG--SLRKALTGDSNTVLSRLARTKORQ 112
Db 492 TG--AIGRLGFSFGGE-PTQAYQAVLKQYRGTRGSVNTLLRSQQAKYAG 543

RESULT 8

S21172
glutamate-tRNA ligase (EC 6.1.1.17) - Thermus aquaticus
C:Species: Thermus aquaticus
C:Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 03-Jun-2002
C:Accession: S21172; S21236
R:Nureki, O.; Suzuki, K.; Hara-Yokoyama, M.; Kohno, T.; Matsuzawa, H.; Ohta, T.; Shimizu,
Eur. J. Biochem. 204, 465-472, 1992
A:Title: Glutamy-tRNA synthetase from Thermus thermophilus HB8. Molecular cloning of th
A:Reference number: S21172; MUID:92174899; PMID:1541262
A:Accession: S21172
A:Molecule type: DNA
A:Residues: 1-468 <NUR>
A:Cross-references: EMBL:X64557; NID:948241; PIDN:CAA5854.1; PID:948242
A:Note: the sequence from Fig. 4 is inconsistent with that from Fig. 3 in having 67-Thr
A:Note: the source is designated as Thermus thermophilus
A:Accession: S21236
A:Molecule type: DNA
A:Residues: 1-40 <NU2>
A:Note: the source is designated as Thermus thermophilus
C:Superfamily: glutamate-tRNA ligase; glutamine-tRNA ligase homolog
C:Keywords: aminoacyl-tRNA synthetase; ligase; protein biosynthesis
F:2-310/Domain: glutamine-tRNA ligase homology <BEGL>

Query Match 12.0%; Score 76; DB 2; Length 468;
Best Local Similarity 36.8%; Pred. No. 13;
Matches 35; Conservative 9; Mismatches 31; Indels 20; Gaps 6;

QY 21 FVPTDGTGEMSLQ--LPLVEE--NALRALEELRTALQTLRTQVGTAEAG--SLGQ-ADP 73
Db 377 YPSEKAQRKLEGLDLKLKLYLRLRAQEEWTEALEALR---GFAAEKGVKLGVAOP 433

QY 74 SAETPTPRGSLRKALTGDSNTVLSRLARTKOR 108
Db 434 -----LRAALTSLETPGLFEITALGKER 458

RESULT 9

S42727
translation initiation factor eIF-2 delta chain - rabbit
C:Species: Oryctolagus cuniculus (domestic rabbit)
C:Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 17-Nov-2000
C:Accession: S42727
R:Price, N.T.; Francia, G.; Hall, L.; Proud, C.G.
Biochim. Biophys. Acta 1217, 207-210, 1994
A:Title: Guanine nucleotide exchange factor for eukaryotic initiation factor-2. Clon
A:Reference number: S42727; MUID:94153999; PMID:8110836
A:Accession: S42727
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-523 <PRI>
A:Note: the authors translated the codon AGG for residue 370 as Ser, GCA for residue
C:Superfamily: translation regulator GCD2

Query Match 11.8%; Score 75; DB 2; Length 523;
Best Local Similarity 32.9%; Pred. No. 19;
Matches 27; Conservative 9; Mismatches 36; Indels 10; Gaps 3;

QY 42 RALEELERTALQTLRTQVGTAEAGSLGADPSAETPTPRGSLR-KALTGDSNTVLSRL 100
Db 104 RAKQEEER-----ALKQARKGDCGPPQASPSTAGEAGKRLTEHTQADDPITLRL 158

QY 101 LARTRKQ---RKQHTAPECF 118
Db 159 VRKSEKQVPTRKDYGSVSLP 180

RESULT 10

E87400
oxidoreductase, FAD-binding CCL219 [imported] - Caulobacter crescentus
C:Species: Caulobacter crescentus
C:Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 10-May-2001
C:Accession: E87400
R:Nierman, W.C.; Feldblum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg,
B.; Laub, M.T.; Deboy, R.T.; Dodson, R.J.; Durkin, A.S.; Gilm, M.L.; Haft, D.H.; Ko
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
A:Title: Complete Genome Sequence of Caulobacter crescentus.
A:Reference number: A87249; MUID:21173698; PMID:11259647
A:Accession: E87400
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-468 <STO>
A:Cross-references: GB:AE005673; NID:913422545; PIDN:AAK23201.1; GSPDB:GN00148
C:Genetics:
A:Gene: CCL219
C:Superfamily: L-gulonolactone oxidase

Query Match 11.8%; Score 74.5; DB 2; Length 468;
Best Local Similarity 37.7%; Pred. No. 19;
Matches 29; Conservative 9; Mismatches 32; Indels 7; Gaps 3;

QY 28 EMSLQPLVLEENLRALREELRTALQTLRTQVGTAEAGSLGADPSAETPTPRGSL 84
Db 337 EMERHLPV--ENQKALEEVMRT--IETRPDVFPELVRIADADMLSPFYAPRGSV 392

QY 85 RKALTGDSNTVLSRL 101
Db 393 AVHAYRDPDFLYELI 409

RESULT 11
H82751
ATP-dependent helicase XF0882 [imported] - Xylella fastidiosa (strain 98sc)

RESULT 12
 A35622
 nuclear pore protein NUP1 - yeast (*Saccharomyces cerevisiae*)
 N:Alternate names: nucleoporin; protein O3187; protein YOR098c; protein YOR3182c
 C:Species: *Saccharomyces cerevisiae*
 C:Date: 22-Jan-1993 #sequence, revision 08-Mar-1996 #text_change 21-Jul-2000
 C:Accession: A35622; S61658; S66983
 R:Davis, L.I.; Fink, G.R.
 Cell 61, 965-978, 1990
 A:Title: The NUP1 gene encodes an essential component of the yeast nuclear pore complex.
 A:Reference number: A35622; MUID:90275616; PMID:2190694
 A:Accession: A35622
 A:Molecule type: DNA
 A:Residues:..1-1076 <DAV>
 A:Cross-references: EMBL:M3632; NID:g172055; PIN:AAA34822.1; PID:g172056
 A:Experimental source: Strain S288C
 R:Benes, V.; Andrade, M.A.; Reichmann, S.; Teodoru, C.; Banreivi, A.; Sander, C.; Valencik
 Submitted to the EMBL Data Library, December 1995
 A:Description: Nucleotide sequence and analysis of a 130 kb fragment of yeast chromosome
 A:Reference number: S61643
 A:Accession: S61658
 A:Molecule type: DNA
 A:Residues: 1-1076 <BEN>
 A:Cross-references: EMBL:X9433; NID:g1262139; PIDN:CAA64020.1; PID:g1164945
 R:Voss, H.; Benes, V.; Reichmann, S.; Teodoru, C.; Schwager, C.; Paces, V.; Ansoorge, W.
 submitted to the Protein Sequence Database, July 1996
 A:Reference number: S66965
 A:Accession: S66983
 A:Molecule type: DNA

```

RESULT 13
F98274
hypothetical protein AGR_L_2311 [imported] - Agrobacterium tumefaciens (strain C58, C
C:Species: Agrobacterium tumefaciens
C:Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 11-Jan-2002
C:Accession: F98274
R:coorder: B.; Hinkle, G.; Galtung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldm
A.: Liu, F.; Wollam, C.; Allinger, M.; Doughny, D.; Scott, C.; Lappas, C.; Markelz,
Science 294, 2233-2238, 2001
A:title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium
A:Reference number: A97359; PMID:11743194
A:Accession: F98274
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-2319 <KUR>
A:Cross-references: GB:AE007870; PID:q15159634; GSPDB:GN00170
C:Genetics:
A:Gene: AGR_L_2311
A:Map position: linear chromosome

```

RESULT 14
AH3009
non-ribosomal peptide synthetase mbad [imported] - *Agrobacterium tumefaciens* (strain
C:Species: *Agrobacterium tumefaciens*
C:Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 11-Jan-2002
C:Accession: AH3009
R:Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Wood,
C.; Gillist, W.; Grant, C.; Guentlner, D.; Kutyavin, T.; Levy, R.; Li, M.; McCl
; Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001

A:Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm, ster, E.W.
 A:Title: The Genome of the Natural Genetic Engineer *Agrobacterium tumefaciens* C58.
 A:Reference number: AB2577; PMID:11743193
 A:Accession: AH3009
 A>Status: Preliminary
 A:Molecule type: DNA
 A:Residues: 1-2399 <KUR>
 A:Cross-references: GB:AE008689; PIDN:AAL44494.1; PID:g17742101; GSPDB:GN00187
 A:Experimental source: strain C58 (DuPont)
 C:Genetics:
 A:Gene: mtad
 A:Map position: linear chromosome

Query Match 11.7%; Score 74; DB 2; Length 2399;
 Best Local Similarity 27.4%; Pred. No. 1.4e+02;
 Matches 37; Conservative 9; Mismatches 43; Indels 46; Gaps 7;
 QY 12 VGLNPF-LISEPVDTGEMSLQPLVENALR-ALEELERRALLQT-----55.
 Db 1927 LGRLREGLLEF---LGREDFOVKV---NGFRIELGEIE-TALLQENNVAEAVTTMGQ 1978
 QY 56 -----LRQTVGTEAGSLGQADPSAETPTPRGSLRKALTGQDSNTV 96
 Db 1979 PPAIAYIVPTKSLIGLKLEAKGRSGNGIGDAGRIVDLPDGLFHEAITRQSHRRF 2038
 QY 97 LSRLARTRKQKOH 111
 Db 2039 LN---APTELQKIGH 2050

RESULT 15

AD0700

probable two-component sensor kinase ssra [imported] - *Salmonella enterica* subsp. enterica
 C:Species: *Salmonella enterica* subsp. enterica serovar Typh
 A:Note: this species has also been called *Salmonella typhi*
 C:date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 09-Nov-2001
 C:Accession: AD0700
 R:Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher, S.; Moule, S.; O'Gaora, P.
 Nature 413, 848-852, 2001
 A:Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; A:Title: Complete genome sequence of a multiple drug resistant *Salmonella enterica* serov A:Reference number: AB0502; PMID:11677608
 A:Accession: AD0700
 A>Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-920 <PAR>
 A:Cross-references: GB:AL513382; PIDN:CAD01973.1; PID:g16502815; GSPDB:GN00176
 C:Genetics:
 A:Gene: ssra

Query Match

Best Local Similarity 11.5%; Score 73; DB 2; Length 920;
 Matches 37; Conservative 15; Mismatches 54; Indels 30; Gaps 6;

QY 6 FCCLLFVGLNPLPSF---PVTDTGEMSLQPLVENALRALLELERTT-----LLOTL 56
 Db 311 FCWLLHRLSLAKLMLRFVDIINKTATAPLSTRPA-----QRLDELDSIAGAFNQLDLTL 364
 QY 57 R-----QTVGTEAGSLGQADPSAETPTPRGSLRKALTGQDSNTVLS-----RLART 104
 Db 365 QVOYDNLENKVAERTQALNEAKKRAEQANKRSIHLYISHLRTPMNGVLCATIELQTT 424
 QY 105 RKQKQHG---TAPEC 117
 Db 425 PLNIEQOGLADTARNC 440

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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:26:37 ; Search time 6.98108 Seconds
(without alignments)
730.773 Million cell updates/sec

Title: US-09-831-907A-30

Perfect score: 633
Sequence: 1 MDRVPECLLFVGLINPLLS.....TRKOROHGTAPECFWKYCI 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Swissprot_40:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	633	100.0	123	1 UR2_RAT	O9q2g4 rattus norv
2	541	85.5	123	1 UR2_MOUSE	O9q2g3 mus musculu
3	282.5	44.6	124	1 UR2_HUMAN	O9q399 homo sapien
4	128	20.2	127	1 UR2_RANRI	P33715 rana ridibu
5	107	16.9	125	1 UR2G_CYPCA	P06580 cyprinus ca
6	104	16.4	125	1 UR2A_CYPCA	P04560 cyprinus ca
7	85	13.4	83	1 UR2_PLAEE	P21857 platichthys
8	81.5	12.9	906	1 HELY_MYCTU	Q10701 mycobacteri
9	76	12.0	468	1 SVE_THERH	P27000 thermus the
10	75	11.8	523	1 E2BD_RABIT	P21000 thermus the
11	74	11.7	1076	1 NUPI_YEAST	P41111 oryctolagus
12	73	11.5	1374	1 RPOB_RICPR	P20676 saccharomyc
13	72.5	11.5	404	1 EAD_EBV	O52271 rickettsia
14	72.5	11.5	926	1 POBI_YEAST	P03191 epstein-bar
15	72	11.4	920	1 HELY_MYCTE	O01454 saccharomyc
16	72	11.4	1581	1 LMG3_MOUSE	O92bde mycobacteri
17	71.5	11.3	311	1 UCP3_CANFA	O92bde mus musculu
18	71.5	11.3	409	1 ODOO_HAEIN	O92bde mus musculu
19	71	11.2	1373	1 RPOB_RICCN	O92bde mus musculu
20	71	11.2	1373	1 RPOB_RICCN	O92bde mus musculu
21	70.5	11.1	207	1 FM2_BOPE	P45302 haemophilus
22	70.5	11.1	311	1 UCP3_BOVIN	O92bde mus musculu
23	70.5	11.1	523	1 E2BD_HUMAN	O92bde mus musculu
24	70	11.1	647	1 NAFL_MOUSE	O92bde mus musculu
25	69.5	11.0	337	1 G3PE_MAIZE	O92bde mus musculu
26	69.5	11.0	381	1 AMPC_ENTCL	O92bde mus musculu
27	68.5	10.8	632	1 PARE_HAEIN	O92bde mus musculu
28	68.5	10.8	5327	1 ACPT_MOUSE	O92bde mus musculu
29	68	10.7	815	1 P2CG_MOUSE	O92bde mus musculu
30	68	10.7	842	1 MKO7_HUMAN	O92bde mus musculu
31	68	10.7	1279	1 BCHH_CHLYI	O92bde mus musculu
32	67.5	10.7	318	1 ANX5_RAT	O92bde mus musculu
33	67.5	10.7	357	1 NDPL_CHICK	P79765 gallus gall

34	67.5	10.7	374	1 ERGL_MOUSE	O8vcd3 mus musculu
35	67.5	10.7	630	1 PARE_SALT	P31598 salmonella
36	67	10.6	269	1 TRPA_BACST	P19867 bacillus st
37	67	10.6	354	1 DCUP_SYN7	P16891 synechococc
38	67	10.6	604	1 VEI_BPV2	P11298 bovine papl
39	67	10.6	878	1 MSH4_YEAST	P40865 saccharomyc
40	67	10.6	1206	1 FM14_MOUSE	O05859 mus musculu
41	67	10.6	1363	1 RPOB_HAEIN	P43738 haemophilus
42	66.5	10.5	361	1 RECA_BRUME	O8vhl0 brucella me
43	66.5	10.5	673	1 FYUA_YEREN	P46360 yersinia en
44	66.5	10.5	673	1 FYUA_YERPE	P46359 yersinia pe
45	66.5	10.5	886	1 APCE_PORPU	P51263 porphyra pu

ALIGNMENTS

RESULT 1

UR2_RAT STANDARD: PRT: 123 AA.

AC Q9Q204; 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II precursor (U-II) (UII).
GN UTS2.

OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Euteria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;

RM (1)
RP SEQUENCE FROM N.A.
RC TISSUE-Spinal cord;
RX MEDLINE=99416011; PubMed=10486557;

RA Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lihmann I.;
RT Cloning, sequence analysis and tissue distribution of the mouse and
RT rat urotensin II precursors.";
RL FEBS Lett. 457:28-32(1999).

CC - FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).
CC - SUBCELLULAR LOCATION: Secreted.
CC - TISSUE SPECIFICITY: BRAIN-SPECIFIC.

CC - SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
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DR EMBL; AF172174; AAD55766.1; -
DR InterPro; IPR001483; Urotensin_II.
DR Pfam; PF02083; Urotensin_II.1.
DR PROSITE; PS00984; UROTENSIN_II.1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL; 1 20
FT PROPEP; 21 104
FT PEPTIDE; 110 123
FT DISULFID; 117 122
FT BY SIMILARITY.
SQ SEQUENCE 123 AA; 13614 MW; EF418EE124AF1EA CRC64;

Query Match 100.0%; Score 633; DB 1; Length 123;
Best Local Similarity 100.0%; Pred. No. 6.4e-54;

Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MDRVPECLLFVGLINPLSPVDTGEMSLQPLVEENALRALEELERTALLOTLRQTV	60
DB	1	MDRVPECLLFVGLINPLSPVDTGEMSLQPLVEENALRALEELERTALLOTLRQTV	60
QY	61	GTEAGSLGQADPSAETPTPGSLRKALTGDSNTVLSRLIARRKOROHGTAPECFWK	120
DB	61	GTEAGSLGQADPSAETPTPGSLRKALTGDSNTVLSRLIARRKOROHGTAPECFWK	120

QY 121 YCI 123
DB 121 YCI 123

RESULT 2
UR2_MOUSE STANDARD: PRT: 123 AA.

ID UR2_MOUSE
AC 090203;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Urotensin II precursor (U-II) (UII).
GN UTS2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
NCBI_TaxID=10090;
OX (1)
RN
RP SEQUENCE FROM N.A.
RC TISSUE-Spinal cord;
RX MEDLINE=99416011; PubMed=10486557;
RA Coulouarn Y., Jegou S., Testivint H., Vaudry H., Lihmann I.;
RT "Cloning, sequence analysis and tissue distribution of the mouse and
rat urotensin II precursors."
RL FEBS Lett. 457:28-32(1999).
CC -1- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: BRAIN-SPECIFIC. PREDOMINANTLY EXPRESSED IN
MOTORNEURONS OF THE BRAINSTEM AND SPINAL CORD.
CC -1- SIMILARITY: BELONGS TO THE UROSENSIN 2 FAMILY.

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or send an email to license@sib-sib.ch).

CC EMBL: AF172175; AAD55767.1; -
DR MCD; MGI:1346329; UTS2.
DR InterPro: IPR001483; Urotensin-II.
DR Pfam: PF02083; Urotensin-II: 1.
DR PROSITE: PS00984; UROSENSIN-II: 1.
KM Hormone: Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 20
FT PROPEP 21 104
FT PEPTIDE 110 123
FT DISULFID 117 122
SQ SEQUENCE 123 AA: 13625 MW: F964861951377F7F4 CRC64:

Query Match 85.5%; Score 541; DB 1; Length 123;
Best Local Similarity 84.6%; Pred. No. 4.1e-45;
Matches 104; Conservative 7; Mismatches 12; Indels 0; Gaps 0;

QY 1 MDRVPCCLLFVGLNPLLSFVTDGEMSLQPVLEENALRALLELERTALLQTLRTV 60
DB 1 MDRVPCCLLFVGLNPLLSFVTDGERTLQPVLEEDALRALLELERNALLQTLRTM 60
QY 61 GTEAEGSLQADPSAETPPRGSLRKALTGODSNIVLSRLARTKQKQHGCAAPCFWK 120
DB 61 GTEAGESPGEAGSTETPPRGSMRAKAFAGONSIVLSRLARTKQKQHGCAAPCFWK 120
QY 121 YCI 123
DB 121 YCI 123

RESULT 3
UR2_HUMAN STANDARD: PRT: 124 AA.

AC 095399; 09UKP7;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Urotensin II precursor (U-II) (UII).
GN UTS2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
NCBI_TaxID=9606;
OX (1)
RN
RP SEQUENCE FROM N.A.
RC TISSUE-Spinal cord;
RX MEDLINE=99080095; PubMed=9861051;
RA Coulouarn Y., Lihmann I., Jegou S., Anouar Y., Testivint H.,
RA Beauvillain J.C., Conlon J.M., Bern H.A., Vaudry H.;
RT "Cloning of the cDNA encoding the urotensin II precursor in frog and
human reveals intense expression of the urotensin II gene in
motorneurons of the spinal cord."
RL Proc. Natl. Acad. Sci. U.S.A. 95:15803-15808(1998).

RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE-Spinal cord;
RX MEDLINE=99427933; PubMed=10499587;
RA Ames R.S., Sarau H.M., Chambers J.K., Willeite R.N., Aiyar N.V.,
RA Romanic A.M., Louden C.S., Foley J.J., Sauermelch C.F., Coatsney R.W.,
RA Ao Z., Disa J., Holmes S.D., Stadel J.M., Martin J.D., Liu W.-S.,
RA Glover G.I., Wilson S., McNulty D.E., Ellis C.E., Elshourbagy N.A.,
RA Shabon U., Trill J.J., Hay D.W.P., Ohlstein E.H., Bergsma D.J.,
RA Douglas S.A.;
RT "Human urotensin-II is a potent vasoconstrictor and agonist for the
orphan receptor GPR14."
RL Nature 401:282-286(1999).
RN [3]
RP SEQUENCE FROM N.A.
RA Pearce A.;
RL Submitted (DEC-1999) to the EMBL/Genbank/DBJ databases.
CC -1- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: BRAIN-SPECIFIC.
CC -1- SIMILARITY: BELONGS TO THE UROSENSIN 2 FAMILY.

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CC EMBL: AF104118; AAD13070.1; -
DR EMBL: AF140630; AAD5577.1; -
DR EMBL: 298884; CAB63148.1; -
DR Genew: HGNC:12636; UTS2.
DR MIM: 604097; -
DR InterPro: IPR001483; Urotensin-II.
DR Pfam: PF02083; Urotensin-II: 1.
DR PROSITE: PS00984; UROSENSIN-II: 1.
KM Hormone: Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 20
FT PROPEP 21 110
FT PEPTIDE 114 124
FT DISULFID 118 123
FT CONFLICT 1 19
FT CONFLICT 24 27
SQ SEQUENCE 124 AA: 14295 MW: C7A5FCEFE00D312 CRC64;

Query Match 44.6%; Score 282.5; DB 1; Length 124;
Best Local Similarity 49.6%; Pred. No. 2.3e-20;
Matches 62; Conservative 17; Mismatches 43; Indels 3; Gaps 2;

QY 1 MDRVPCCLLFVGLNPLLSFVTDGEMSLQPVLEENALRALLELERTALLQTLRTV 60
DB 1 MDRVPCCLLFVGLNPLLSFVTDGERTLQPVLEEDALRALLELERNALLQTLRTM 60

DB 1 MYLASCCLLFGFLNPLSLPLDSREISFOLSAPEHEDARTPELELARIQLIPEML 60
 QY 61 GTEAGSLGADPSAETPTPRGSLRK--ALTGDSMTVLSRLARRKOROGTAPCEP 118
 DB 61 GAERGILKRAADSTINIFNRGNLRFODFSGDPNILLSHLARIWKPKRKRET-PDGF 119
 QY 119 WKYCI 123
 DB 120 WKYCV 124

RESULT 4

UR2_RANRI STANDARD: PRT: 127 AA.
 ID UR2_RANRI
 AC P33715; QPSPX6;
 DT 01-EB-1994 (Rel. 28, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Urotensin II precursor (U-II) (UIT).
 GN UT52.
 OS Rana ridibunda (laughing frog) (Marsh frog).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8406;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE-Brain;
 RX MEDLINE=99080095; PubMed=9861051;
 RA Couloaren Y., Lihmann I., Jegou S., Anouar Y., Testavint H.,
 RA Beauvillain J.C., Conlon J.M., Bern H.A., Vaudry H.;
 RT "Cloning of the cDNA encoding the urotensin II precursor in frog and
 RT human reveals intense expression of the urotensin II gene in
 RT motoneurons of the spinal cord";
 RL Proc. Natl. Acad. Sci. U.S.A. 95:15803-15808(1998).
 RN [2]
 RP SEQUENCE OF 115-127.
 RC TISSUE-Brain;
 RX MEDLINE=93075134; PubMed=1445302;
 RA Conlon J.M., O'Harte F., Smith D.D., Tonon M.-C., Vaudry H.;
 RT "Isolation and primary structure of urotensin II from the brain of a
 RT tetrapod, the frog Rana ridibunda";
 RL Biochem. Biophys. Res. Commun. 188:578-583(1992).
 CC -1- FUNCTION: INVOLVED IN SMOOTH MUSCLE STIMULATING AND ION
 CC MOBILIZING ACTIVITIES. IT HAS A SUGGESTED ROLE AS A
 CC CORTICOTROPIN-RELEASING FACTOR.
 CC -1- TISSUE SPECIFICITY: CENTRAL NERVOUS SYSTEM. SPINAL CORD.
 CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
 CC CC
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 CC
 DR EMBL: AF104117; AAD13069.1;
 DR PIR: P00445; P00445.
 DR InterPro: IPR001483; Urotensin_II.
 DR Pfam: PF02083; Urotensin_II.1
 DR PROSITE: PS00984; UROTENSIN_II.1.
 KW Hormone; Cleavage on pair of basic residues; Signal.
 FT SIGNAL 1 16 POTENTIAL.
 FT PROPEP 17 111
 FT PEPTIDE 115 127 UROTENSIN II.
 FT DISULFID 121 126
 SO SEQUENCE 127 AA; 14732 MW; FC26BC90E0C082E CRC64;

Query Match 20.2%; Score 128; DB 1; Length 127;
 Best Local Similarity 29.6%; Pred. No. 1.5e-05;
 Matches 40; Conservative 20; Mismatches 55; Indels 20; Gaps 5;

QY 1 MDAPFCCCLFVGLNPLSLFP--VTDTGENSLQLPYLEENALRALEELERTALLQTLRQ 58

DB 1 MSKLFCCLLIAGSFCFSFRSLPIIVPSKGLRLSESALDGDGLKSD--DETLRLNPLM 58
 QY 59 TVCTEAGSLGADPSAETPTPRGSLRKALTGDSN-----TVLSRLARTKQ-R 108
 DB 59 FVDEKARD-----MEDIFSKEGFLDAYNMMDKEELDFKHPRIISLSRLQSKDRKQFK 112
 QY 109 KOHGTAPCECFWKYCI 123
 DB 113 KRAGNLSECFWKYCV 127

RESULT 5

UR2G_CYPCA STANDARD: PRT: 125 AA.
 ID UR2G_CYPCA
 AC P06580;
 DT 01-JAN-1988 (Rel. 06, Created)
 DT 01-JAN-1988 (Rel. 06, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE UII gamma precursor (Contains: Urophysin gamma; Urotensin II-gamma).
 OS Cyprinus carpio (Common carp).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
 OC Cyprinidae; Cyprinus.
 OX NCBI_TaxID=7962;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=86307061; PubMed=2427672;
 RA Ohsako S., Ishida I., Ichikawa T., Deguchi T.;
 RT "Cloning and sequence analysis of cDNAs encoding precursors of
 RT urotensin II-alpha and -gamma";
 RL J. Neurosci. 6:2730-2735(1986).
 RN [2]
 RP SEQUENCE OF 114-125.
 RA Munekata E., Ohkaki T., Ichikawa T., McMaster D., Lederis K.;
 RL (In) Rich D.H., Gross E. (eds.);
 RL Proceedings of the 7th American peptide symposium, pp.69-72,
 RL Pierce Chemical Co., Rockford IL. (1981).
 CC -1- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
 CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
 CC CORTICOTROPIN-RELEASING FACTOR. THE NONHORMONAL PORTION OF THIS
 CC PRECURSOR MAY BE A UROTENSIN BINDING PROTEIN, UROPHYSIN.
 CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
 CC CC
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 CC
 DR EMBL: M14088; AAA49216.1;
 DR InterPro: IPR001483; Urotensin_II.
 DR Pfam: PF02083; Urotensin_II.1
 DR PROSITE: PS00984; UROTENSIN_II.1.
 KW Hormone; Cleavage on pair of basic residues; Signal.
 FT SIGNAL 1 21
 FT CHAIN 22 106 UROPHYSIN GAMMA (POTENTIAL).
 FT PEPTIDE 114 125 UROTENSIN II-GAMMA.
 FT DISULFID 119 124
 SO SEQUENCE 125 AA; 13866 MW; E1587DCFC8CB674D CRC64;

Query Match 16.9%; Score 107; DB 1; Length 125;
 Best Local Similarity 27.1%; Pred. No. 0.0015;
 Matches 32; Conservative 24; Mismatches 60; Indels 2; Gaps 2;

QY 7 CCLFVGLNPLSLFPYTDGEMSLQLP-VLEENALRALEELERTALLQTLRTGTAE 65
 DB 9 CSQLLS-CSHLAHAPYTDGMTVSGPDSVEEAGVGAVDDFVSJDNHGLRAAVAGYS 67
 QY 66 GSLGADPSAETPTPRGSLRKALTGDSNIVLSRLARTKQROHGTAPCECFWKYCI 123

Db 68 PLFSGENIKVPGQIPKRALRELLLEKPYRLIPRGLWGRSROFRKRCGACDEWKYCI 125

RESULT 6
UR2A_CYPCA STANDARD: PRT: 125 AA.

AC P04560:
DT 13-AUG-1987 (Rel. 05, Created)
DT 01-JAN-1988 (Rel. 06, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Utr alpha precursor [contains: Urophysin alpha: urotensin II-alpha].
OS Cyprinus carpio (Common carp).
OC Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:
OC Actinopterygii: Neopterygii: Teleostei: Ostariophysi: Cypriniformes:
OC Cyprinidae: Cyprinus.
NCBI_Taxid=7962;
RN 11
RP SEQUENCE FROM N.A.
RX MEDLINE=86307061; PubMed=2427672;
RA Ohsaka S., Ishida I., Ichikawa T., Deguchi T.,
RT "Cloning and sequence analysis of cDNAs encoding precursors of
urotensin II-alpha and -gamma."
RL J. Neurosci. 6:2730-2735(1986).
RN 12
RP SEQUENCE OF 114-125.
RA Murekata E., Ohkaki T., Ichikawa T., McMaster D., Lederis K.,
RL (in) Rich D.H., Gross E. (eds.);
RL Proceedings of the 7th American peptide symposium, pp.69-72.
RL Pierce Chemical Co., Rockford IL.(1981).
CC -1- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR. THE NONHORMONAL PORTION OF THIS
CC PRECURSOR MAY BE A UROTENSIN BINDING PROTEIN, UROPHYSIN.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC
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CC or send an email to license@sdb-sdb.ch).
CC
CC EMBL: M14084; AAA9215.1; .
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 21
FT CHAIN 22 106 UROPHYSIN ALPHA (POTENTIAL).
FT PEPTIDE 114 125 UROTENSIN II-ALPHA.
FT DISULFID 119 124
SQ SEQUENCE 125 AA; 13840 MW; 16B6F86CA6B3A5AF CRC64;

Query Match 16.4%; Score 104; DB 1; Length 125;
Best Local Similarity 25.8%; Pred. No. 0.0028;
Matches 32; Conservative 23; Mismatches 55; Indels 14; Gaps 2;

QY 14 LNLPLSTF-----PVTDTGMSLQLP-VLEENALRALELEBRLALLOTLRQT 59
DB 2 WCNLLISFVLLSCTHLVAHPYTDADMTYSPDSVEAGCVSPDFAVSNDLNDLQRA 61

QY 60 VGTAEAGSLGADPSAETPTPRGSLRKALTGODSNTVLSRLARTRKQRKHGTAFECFW 119
DB 62 AVEYSPLLSRENKIKVPGQIPKRALRELLLEKPYRLIPRGLWGRSROFRKRCGACDEW 121

QY 120 KYCI 123
DB 122 KYCV 125

RESULT 7
UR2_PLAFA

ID UR2_PLAFA STANDARD: PRT: 83 AA.

AC P21857;
DT 01-MAY-1991 (Rel. 18, Created)
DT 01-MAY-1991 (Rel. 18, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II precursor (U-II) (UII) (Fragments).
OS Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi:
OC Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostei:
OC Actinopterygii: Neopterygii: Teleostei: Percomorpha: Pleuronectiformes:
OC Pleuronectoidae: Pleuronectidae: Platichtys.
NCBI_Taxid=8260;
RN 11
RP SEQUENCE.
RC TTSUSE-Urophysis;
RX MEDLINE=90306357; PubMed=2365069;
RA Conlon J.M., Arnold-Reed D.E., Baiment R.J.;
RT "Post-translational processing of prepro-urotensin II.";
RL FEBS Lett. 266:37-40(1990).
CC -1- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR. THE NONHORMONAL PORTION OF THIS
CC PRECURSOR MAY BE A UROTENSIN BINDING PROTEIN, UROPHYSIN.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC
CC PIR: S10706; S10706.
DR InterPro: IPR001483; Urotensin_II.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone; Cleavage on pair of basic residues.
FT NON_TER 1 1
FT PEPTIDE 1 48 UROPHYSIN (POTENTIAL).
FT NON_CONS 48 49
FT FT 71 72
FT PEPTIDE 72 83 UROTENSIN II.
FT DISULFID 77 82
SQ SEQUENCE 83 AA; 9292 MW; 6DD057577E6DF703 CRC64;

Query Match 13.4%; Score 85; DB 1; Length 83;
Best Local Similarity 27.5%; Pred. No. 0.11;
Matches 30; Conservative 12; Mismatches 34; Indels 34; Gaps 5;

QY 22 PVTDTGMSLQLP-VLEENALRALELEBRLALLOTLRQTVGTAEAGSLGADPSAETPTP 80
DB 2 PTTEAEMPPGPAASLEEGVGSLLDL-----SLSEON-----YPPQ 38

QY 81 RG-----SLRKALTGODSNTVLSRLARTRKQRKHGTAFECFWKYCI 123
DB 39 KAGLRVATLEVLLEKQSLNPFSSVFG-----IRKQFAGTTCGFMKYCV 83

RESULT 8
HELX_MYCTU STANDARD: PRT: 906 AA.

ID HELX_MYCTU
AC Q10701;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Probable helicase helv (EC 3.6.1.-).
GN HELV OR RV2092C OR MT2153 OR MTCY49.32C.
OS Mycobacterium tuberculosis.
OC Bacteria: Actinobacteria: Actinobacteria (class): Actinobacteridae:
OC Actinomycetales: Corynebacteriaceae; Mycobacterium.
NCBI_Taxid=1773;
RN 11
RP SEQUENCE FROM N.A.
RC STRAIN=H37RV;
RX MEDLINE=98295987; PubMed=9634230;
RA Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris D.,
RA Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekala F.,
RA Badcock K., Basham D., Brown D., Chillingworth T., Connor R.,
RA Davies R., Devlin K., Feltwell T., Gentles S., Hamlin N., Holtroyd S.,
RA Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L.,
RA Oliver S., Osborne J., Quail M.A., Rajandream J., Rogers J.,
RA Rutter S., Seeger K., Skelton S., Squares S., Squares R.,

```

RT      "glutamyl-tRNA synthetase from Thermus thermophilus HB8. Molecular
RT      cloning of the gltx gene and crystallization of the overproduced
RT      protein." ;
RL      Eur. J. Biochem. 204:465-472(1992) .
RN      [2]
RP      X-RAY CRYSTALLOGRAPHY (2.5 ANGSTROMS).
RC      STRAIN-HB8 / ATCC 27634;
RX      MEDLINE=95215840; PubMed=7701318;
RA      Nureki O., Vasylyev D.G., Katayanagi K., Shimizu T., Sekine S.-I.,
RA      Kigawa T., Miyazawa T., Yokoyama S., Morikawa K.;
RT      "Architectures of class-defining and specific domains of glutamyl-tRNA
RT      synthetase." ;
RL      Science 267:1958-1965(1995) .
CC      -!- CATALYTIC ACTIVITY: ATP + L-glutamate + tRNA(Glu) = AMP +
CC      diphosphate + L-glutamyl-tRNA(Glu) .
CC      -!- SUBUNIT: MONOMER.
CC      -!- SUBCELLULAR LOCATION: Cytoplasmic.
CC      -!- SIMILARITY: BELONGS TO CLASS-I AMINOACYL-TRNA SYNTHETASE FAMILY.
CC      -----
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CC      or send an email to license@isb-sib.ch) .
CC      -----
DR      EMBL: X64557; CAA5854.1;
DR      PIR: S21172; S21172.
DR      PIR: S21236; S21236.
DR      PDB: 1GLN; 1S-OCT-95.
DR      InterPro: IPR004527; GLTX_bact.
DR      InterPro: IPR000924; Glu_tRNA-synt_1c.
DR      InterPro: IPR001412; tRNA-synt_1.
DR      Pfam: PF00749; tRNA-synt_1c; 1.
DR      PRINTS: PRO0987; TRNASYNTHGU.
DR      TIGRFAMS: TIGR00464; gltx_bact; 1.
DR      PROSITE: PS00178; AA_tRNA_LIGASE_I; 1.
KW      Aminoacyl-tRNA synthetase; Protein biosynthesis; Ligase; ATP-binding;
KW      3D-structure.
FT      SIZE            8          18          "HIGH" REGION.
FT      FT             243         247         "KMSKS" REGION.
FT      BINDING        246         246         ATP.
SQ      SEQUENCE       468 AA; 53901 MW; BD8A141031BE06ED CRC64;
Query Match           12.0%; Score 76; DB 1; Length 468;
Best Local Similarity 36.8%; Pred. No. 6.5;
Matches 33; Conservative 9; Mismatches 31; Indels 20; Caps 6;
QY      21 PPVDTGEMSLQ--LPVLEE--NALRALAELEFPAALLQTLRQVTGTAEAG--SIGO--ADP 73
DY      :||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DY      377 YPVSEKAQRKEEELPLKLKELYPRLRQEEVTEALELLR---GFAAEKGVKLGQVAAP 433
QY      74 SAEPPTRGSLRKALTGODSNFTVLSRLIARTKROR 108
DY      |||||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DY      434 -----LRAALTGSLETPGLGFELLALIGKER 458

RESULT 10
E2BD_RABIT
ID      E2BD_RABIT      STANDARD;      PRT;      523 AA.
AC      PA1111;
DT      01-FEB-1995 (Rel. 31, Created)
DT      01-NOV-1997 (Rel. 35, Last sequence update)
DT      15-JUL-1999 (Rel. 38, Last annotation update)
DE      Translation initiation factor eIF-2B delta subunit (eIF-2B GDP-GMP
DE      exchange factor) .
GN      EIF2B4 OR EIF2BD.
OS      Oryctolagus cuniculus (Rabbit).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
NCBI_TaxId=9986;
NX      [1]
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RP SEQUENCE FROM N.A.
RC STRAIN-New Zealand white; TISSUE-Liver;
RX MEDLINE-9415399; PubMed-8110836;
RA Price N.T., Francia G., Hall L., Proud C.G.;
RT "Guanine nucleotide exchange factor for eukaryotic initiation
RT factor-2. Cloning of cDNA for the delta-subunit of rabbit translation
RT Initiation factor-2B." 1217:207-210(1994).
RL Blochlin, Biophys. Acta 1217:207-210(1994).
CC -1- FUNCTION: CATALYZES THE EXCHANGE OF EUKARYOTIC INITIATION FACTOR
CC -2- BOUND GDP FOR GTP.
CC -1- SUBUNIT: COMPLEX OF FIVE DIFFERENT SUBUNITS; ALPHA, BETA, GAMMA,
CC DELTA AND Epsilon.
CC -1- SIMILARITY: BELONGS TO THE EIF-2B ALPHA/BETA/DELTA SUBUNITS
CC FAMILY.
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-----
DR EMBL; X75451; CAAS3204.1; ALT_INIT.
DR InterPro; IPR000649; IF-2B.
DR Pfam; PF01008; IF-2B; 1.
KW Initiation factor; Protein biosynthesis.
SQ SEQUENCE 523 AA; 57120 MW; 057895B1E9D25558 CRC64;

Query Match 11.8%; Score 75; DB 1; Length 523;
Best Local Similarity 32.9%; Pred. No. 9.3;
Matches 27; Conservative 9; Mismatches 36; Indels 10; Gaps 3;

QY 42 RALELEERALLQTRQVYGTAEAGSLGADPSAEPPRGSLR-KALRGDSNTVLSRL 100
DB 104 RAKQAEER-----ALKQARKGEGGPPQASPSSTAGEAPAGKRLTEHTQADDPILRL 158
QY 101 LARTRKO-----RKQGTAEPCF 118
DB 159 VKSERQGVPTRKDYGSYSLF 180

RESULT 11
NUP1_YEAST
ID NUP1_YEAST STANDARD: PRT: 1076 AA.
AC P20676;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Nucleoporin NUP1 (Nuclear pore protein NUP1).
GN NUP1 OR YOR098C OR YOR3182C.
OS Saccharomyces cerevisiae (Baker's yeast).
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
OX NCBI_TaxID=4932;
RN RN
RP SEQUENCE FROM N.A.
RX MEDLINE-90275616; PubMed-2190694;
RA Davis L.I., Fink G.R.;
RT "The NUP1 gene encodes an essential component of the yeast nuclear
RT pore complex." 1990.
RL Cell 61:965-978(1990).
RN RN
RP SEQUENCE FROM N.A.
RX MEDLINE-97344368; PubMed-9200815;
RA Voss H., Benes V., Andrade M.A., Valencia A., Rechmann S., Teodoru C.,
RA Schwaeger C., Paces V., Sander C., Ansorge W.;
RT "DNA sequencing and analysis of 130 kb from yeast chromosome XV." 1997.
RL Yeast 13:655-672(1997).
CC -1- FUNCTION: ESSENTIAL COMPONENT OF NUCLEAR PORE COMPLEX.
CC NUCLEOPORINS MAY BE INVOLVED IN BOTH BINDING AND TRANSLLOCATION OF
CC THE PROTEINS DURING NUCLEOCYTOPLASMIC TRANSPORT.
CC -1- SUBCELLULAR LOCATION: Nuclear pore complex.

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CC -1- DOMAIN: APPEARS TO BE DIVIDED INTO THREE DOMAINS DEFINED BY
CC CENTRALLY LOCATED REPEATING UNITS. FUNCTIONAL N-TERMINAL OF NUP1
CC OR OF NUP2 IS REQUIRED FOR GROWTH.
CC -1- DOMAIN: CONTAINS F-X-F-G REPEATS.
CC -1- SIMILARITY: TO THE CENTRAL REPEATING UNITS OF NSP1 AND NUP2, AND
CC TO MAMMALIAN P52.
-----
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CC or send an email to license@isb-sib.ch).
-----
DR EMBL; M33632; AAA34822.1; -
DR EMBL; X9435; CA64020.1; -
DR EMBL; 275006; CA99295.1; -
DR PIR; A35622; A35622.
DR SCD; S0005624; NUP1.
KW Nuclear protein; Transport; Repeat.
FT DOMAIN 333 949
SQ SEQUENCE 1076 AA; 113581 MW; 4AC23567D2FB53CC CRC64;

Query Match 11.7%; Score 74; DB 1; Length 1076;
Best Local Similarity 26.6%; Pred. No. 27;
Matches 33; Conservative 21; Mismatches 48; Indels 22; Gaps 7;

QY 17 PLLSFPMYDTGMSQLPYLEENALRALEERLALQTLRTQVGTAE-----GSL 68
DB 86 PLIITGTEHTERPL-LPLTPIQRLRLREKQVRNMRRLGSLQSTPEFSINSSVILGSO 144
QY 69 GQADP-----SAEPTTP-RGSLRKAL---TGQDSNTVLSLLA-KTRKQKQ-KGTAP 115
DB 145 SKDEGSLYLCSTSPSPKNGSCITROLAGSGEDTNVGLPIIKSLKNSNRKRFHSQK 204
QY 116 ECFW 119
DB 205 GTVW 208

RESULT 12
RPOB_RICPR
ID RPOB_RICPR STANDARD: PRT: 1374 AA.
AC O52271; O9RH37;
DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE DNA-directed RNA polymerase beta chain (PC 2.7.7.6) (transcriptase
DE beta chain) (RNA polymerase beta subunit).
GN RPOB OR RP140.
OS Rickettsia prowazekii.
OC Bacteria; Proteobacteria; alpha subdivision; Rickettsiales;
OC Rickettsiaceae; Rickettsia.
OX NCBI_TaxID=782;
RN RN
RP SEQUENCE FROM N.A.
RX STRAIN-Madrid E;
RC MEDLINE-98215179; PubMed-9555894;
RA Racheh L.I., Tucker A.M., Winkler H.H., Wood D.O.;
RT "Transformation of Rickettsia prowazekii to rifampin resistance." 1998.
RL J. Bacteriol. 180:2118-2124(1998).
RN RN
RP SEQUENCE FROM N.A.
RX STRAIN-Madrid E;
RC MEDLINE-99039499; PubMed-9823893;
RA Andersson S.G.E., Zomorodipour A., Andersson J.O.,
RA Scharitz-Ponten T., Alsmark U.C.M., Podowski R.M., Naeslund A.K.,
RA Eriksson A.-S., Winkler H.H., Kurland C.G.;
RT "The genome sequence of Rickettsia prowazekii and the origin of
RT mitochondria." 1998.
RL Nature 396:133-140(1998).
RN [3]

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RP SEQUENCE FROM N.A.
 RC STRAIN-Breintl;
 RX MEDLINE=99437773; PubMed=10508014;
 RA Drancourt M., Raoult D.;
 RT "Characterization of mutations in the rpoB gene in naturally
 RT rifampin-resistant Rickettsia species."
 RL Antimicrob. Agents Chemother. 43:2400-2403(1999).
 CC -I- FUNCTION: DNA-DEPENDENT RNA POLYMERASE CATALYZES THE TRANSCRIPTION
 CC OF DNA INTO RNA USING THE FOUR RIBONUCLEOSIDE TRIPHOSPHATES AS
 CC SUBSTRATES.
 CC -I- CATALYTIC ACTIVITY: N nucleoside triphosphate = N diphosphate +
 CC (RNA)(N).
 CC -I- SUBUNIT: THE ENZYME CONSISTS OF THE SIGMA CHAIN AND THE CORE
 CC ENZYME WHICH IS COMPOSED OF 2 ALPHA CHAINS, 1 BETA CHAIN, AND 1
 CC BETA' CHAIN.
 CC -I- SIMILARITY: BELONGS TO THE RNA POLYMERASE BETA CHAIN FAMILY
 CC -----
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 CC -----
 DR EMBL: AF034531; AAC38354.1; -
 DR EMBL: AJ235270; CAA14608.1; -
 DR EMBL: AF076437; AAF2439.1; -
 DR HSSP: O9KMU7; 1HOM.
 DR InterPro: IPR001572; RNA_POL_B.
 DR Pfam: PF00562; RNA_POL_B.1.
 DR PROSITE: PS01166; RNA_POL_BETA.1.
 KW Transferrase; DNA-directed RNA polymerase; Transcription;
 KW Antibiotic resistance; Complete proteome.
 FT VARIANT 10 S -> A (IN STRAIN BREINTL).
 FT VARIANT 15 H -> L (IN STRAIN BREINTL).
 FT VARIANT 19 I -> L (IN STRAIN BREINTL).
 FT VARIANT 96 D -> E (IN STRAIN BREINTL).
 FT VARIANT 195 K -> R (IN STRAIN BREINTL).
 FT VARIANT 216 R -> I (IN STRAIN BREINTL).
 FT VARIANT 256 K -> R (IN STRAIN BREINTL).
 FT VARIANT 273 D -> E (IN STRAIN BREINTL).
 FT VARIANT 282 K -> Y (IN STRAIN BREINTL).
 FT VARIANT 299 G -> N (IN STRAIN BREINTL).
 FT VARIANT 310 L -> S (IN STRAIN BREINTL).
 FT VARIANT 546 R -> K (IN STRAIN BREINTL).
 SQ SEQUENCE 1374 AA; 154582 MW; 384676DF6584DB4 CRC64;

Query Match 11.5%; Score 73; DB 1; Length 1374;
 Best Local Similarity 25.7%; Pred. No. 45;
 Matches 28; Conservative 21; Mismatches 32; Indels 28; Gaps 6;

QY 28 EMSIQPLEENALRALEELERLALQTLQRTVGTAEAGS---LQADPSAETP-TPRGS 83
 Db 866 EITRDYVSEELRHUDEV---GIIV---VGAEVKAGDILVKGATPVSSESITPDEEK 917
 QY 84 LRAALTGQD-----SNTVLS-RLIARTRKOROKHGAPE 116
 Db 918 LRAITFEKAFVDKSSLVHPGSGVSTVEVRIFSRGVKEKQDAIAIE 966

RESULT 13
 EAD_EBV STANDARD; PRT; 404 AA.
 AC P03191;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 01-DEC-1992 (Rel. 24, Last annotation update)
 DE Early antigen protein D (EA-D).
 GN BMRL.
 OS Epstein-Barr virus (strain B95-8) (Human herpesvirus 4).
 OC Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
 OC Gammaherpesvirinae; Lymphocytovirulitus.

OX NCBI_TaxID=10377;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=84270667; PubMed=6087149;
 RA Baer R., Bankier A.T., Biggin M.D., Deininger P.L., Farrell P.J.,
 RA Gibson T.J., Hatfull G., Hudson G.S., Sachwell S.C., Seglin C.,
 RA Tufnell P.S., Weller B.G.;
 RT "DNA sequence and expression of the B95-8 Epstein-Barr virus genome."
 RL Nature 310:207-211(1984).
 RN [2]
 RP SEQUENCE OF 123-404 FROM N.A.
 RX MEDLINE=87284177; PubMed=2441081;
 RA Peltzer A.J., Strominger J.L., Speck S.H.;
 RT "Characterization of a cDNA clone corresponding to a transcript from
 RT the Epstein-Barr virus BamHI M fragment: evidence for overlapping
 RT mRNAs."
 RL J. Virol. 61:2943-2946(1987).
 RN [3]
 RP IDENTIFICATION OF PROTEIN.
 RX MEDLINE=86062917; PubMed=2994442;
 RA Cho M.-S., Milman G., Hayward S.D.;
 RT "A second Epstein-Barr virus early antigen gene in BamHI fragment M
 RT encodes a 48- to 50-kilodalton nuclear protein."
 RL J. Virol. 56:860-866(1985).
 CC -I- FUNCTION: TRANS-ACTIVATOR FOR LYTIC CYCLE.
 CC -I- SUBCELLULAR LOCATION: Nuclear.
 CC -----
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 CC -----
 DR EMBL: V01555; CAA24844.1; -
 DR EMBL: M17322; AAA45877.1; -
 DR PIR: A03754; Q0BE13.
 DR PIR: S32998; S32998.
 KW Early protein; Transcription regulation; Activator; DNA-binding;
 KW Nuclear protein; Antigen.
 SQ SEQUENCE 404 AA; 43373 MW; 533B5D5ECC05F960 CRC64;

Query Match 11.5%; Score 72.5; DB 1; Length 404;
 Best Local Similarity 24.8%; Pred. No. 12;
 Matches 34; Conservative 12; Mismatches 54; Indels 37; Gaps 4;

QY 17 PLSPSPV-----TDTGEMSLQPLV-----ENALRALELE----- 48
 Db 258 PAVSVPIRFRSGIIVAVAGLLTSAGDLPLDLSVILEFNHASEPAASTASEPDKSPRV 317
 QY 49 ---RTALLQTLQRTVGTAEAGSLQADPSAETPPTPGSLRKALFGODSNVLSPLLA--- 102
 Db 318 QPLCTGLQGRPRHIVSPSPPPPTPTWESPARPETPSAIRSHSSNTRALEPLAVOL 377
 QY 103 ---RTRKOROKHGAPE 116
 Db 378 ARKRTSSEAROKHPRK 394

RESULT 14
 POBI_YEAST STANDARD; PRT; 926 AA.
 AC Q01454;
 DT 01-JUL-1993 (Rel. 26, Created)
 DT 01-JUL-1993 (Rel. 26, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE DNA polymerase alpha-binding protein (POBI/CTF4 protein) (Chromosome
 DE replication protein CHL15).
 GN POBI OR CTF4 OR CHL15 OR YPR135W OR P9659.7.
 OS Saccharomyces cerevisiae (Baker's yeast).
 OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
 OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.

NCBI_TaxID=4932;
 RN SEQUENCE FROM N.A., AND SEQUENCE OF 1-20.
 RC STRAIN=7208-12;
 RX MEDLINE=93078774; PubMed=1448101;
 RA Miles J., Formosa T.;
 RT "Evidence that Pohl, a Saccharomyces cerevisiae protein that binds to
 DNA polymerase alpha, acts in DNA metabolism in vivo";
 RL Mol. Cell. Biol. 12:5724-5735(1992).
 RN SEQUENCE FROM N.A.
 RC MEDLINE=93078775; PubMed=1341195;
 RX Koupina N.Y., Kroll E.S., Bannikov V.M., Bliskovsky V.V.,
 RA Gizatullin R.Z., Kirillov A.V., Shestopalov B.V., Zakhar'yev V.M.,
 RT "CFR4 (CHL15) mutants exhibit defective DNA metabolism in the yeast
 Saccharomyces cerevisiae";
 RL Mol. Cell. Biol. 12:5736-5747(1992).
 RN [3]
 RP ERRATUM.
 RA Koupina N.Y., Kroll E.S., Bannikov V.M., Bliskovsky V.V.,
 RA Gizatullin R.Z., Kirillov A.V., Zakhar'yev V.M., Hietter P., Spencer F.,
 RL Larionov V.;
 RL Mol. Cell. Biol. 13:7202-7202(1993).
 RN [4]
 RN SEQUENCE FROM N.A.
 RP MEDLINE=93302761; PubMed=8316240;
 RX Koupina N.Y., Kroll E.S., Koryabin M.Y., Shestopalov B.V.,
 RA Bliskovsky V.V., Bannikov V.M., Gizatullin R.Z., Kirillov A.V.,
 RA Khar'yev V.V., Zakhar'yev V.M.;
 RT "CHL15 -- a new gene controlling the replication of chromosomes in
 Saccharomyces yeast: cloning, physical mapping, sequencing, and
 RT sequence analysis";
 RL Mol. Biol. (Mosk.) 27:569-588(1993).
 RN [5]
 RN SEQUENCE FROM N.A.
 RP STRAIN=S288c / AB972;
 RC MEDLINE=97313271; PubMed=9169875;
 RX Bussey H., Storms R.K., Ahmed A., Albermann K., Allen E., Ansoorge W.,
 RA Arujo R., Aparicio A., Barrett B.G., Badcock K., Benes V.,
 RA Botstein D., Bowman S., Bruckner M., Carpenter J., Cherry J.M.,
 RA Chung E., Churcher C.M., Coster F., Davis K., Davis R.W.,
 RA Dietrich F.S., Delius H., Dipolo T., Dubois E., Duesterhoeft A.,
 RA Duncan M., Floeth M., Fortin N., Friesen J.D., Fritz C., Goffeau A.,
 RA Hall J., Hedding U., Heumann K., Hilbert H., Hillier L.,
 RA Huntje-Smith S., Hyman R., Johnston M., Kaiman S., Kleine K.,
 RA Komp C., Kurat O., Laskard D., Lew H., Lin A., Lin D., Louis E.J.,
 RA Marathe R., Messenguy F., Mewes H.-W., Mitalipati S., Moestl D.,
 RA Mueller-Auer S., Namath A., Neutwich U., Oefner P., Pearson D.,
 RA Petzel F.X., Pohl T.M., Purnelle D., Schafer M., Scharfe M.,
 RA Scherens B., Schramm S., Schroeder M., Sdicu A.M., Tettelin H.,
 RA Urestarazu L.A., Ushinsky S., Vierendeels F., Vissers S., Voss H.,
 RA Walsh S.V., Wambutt R., Wang Y., Wedler E., Wedler H., Winneft E.,
 RA Zhong W.W., Zollner A., Vo D.H., Hant J.;
 RT "The nucleotide sequence of Saccharomyces cerevisiae chromosome XVI";
 RL Nature 387:103-105(1997).
 CC -1- FUNCTION: ACCESSORY FACTOR FOR DNA REPLICATION. IT PLAY A ROLE IN
 CC ACCURATELY DUPLICATING THE GENOME IN VIVO.
 CC
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 CC EMBL: M94769; AAA34887.1;
 CC EMBL: S63246; AAB827308.1;
 CC EMBL: U40829; AAB88276.1;
 CC PIR: S27446; S27446.
 CC PIR: A45039; A45039.
 CC PIR: A45040; A45040.

DR SGD: S0006339; CTF4.
 KW DNA replication.
 FT INIT MET 0
 FT CONFLICT 111 111 G -> E (IN REF. 2 AND 4).
 FT CONFLICT 587 587 V -> F (IN REF. 2).
 FT CONFLICT 589 589 V -> F (IN REF. 2).
 FT CONFLICT 600 600 N -> I (IN REF. 2).
 FT CONFLICT 834 834 E -> K (IN REF. 2).
 FT SEQUENCE 926 AA; 104293 MW; 39CBE2E90931CACC2 CRC64;
 Query Match 11.5%; Score 72.5; DB 1; Length 926;
 Best Local Similarity 25.0%; Pred. No. 32;
 Matches 21; Conservative 15; Mismatches 39; Indels 9; Gaps 2;
 QY 21 FPDVDCGMSLOLPVLEENALRALLELPTALLQTLRTQVGTENGLSGQADPSAETPTP 80
 DB 765 FPLPLPSEMEIRPVPFKSL-----LEENKALINKKNEIGADTEAGEDEKDEIQLPVS 819
 QY 81 RGSURKALTCGDSNTVLSRLART 104
 DB 820 MAEEFYLRSK-----VLSLELDTF 839
 RESULT 15
 HELIX_MYCLE STANDARD; PRT; 920 AA.
 ID AC Q92BD8;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Probable helicase hely (EC 3.6.1.-).
 GN HELIX OR ML1333 OR MLCB2533.29.
 OS Mycobacterium lepreae.
 OC Bacteria; Actinobacteria; Actinobacteria (class); Actinobacteridae;
 OC Actinomycetales; Corynebacterineae; Mycobacteriaceae; Mycobacterium.
 OX NCBI_TaxID=1769;
 RN [1]
 RN SEQUENCE FROM N.A.
 RP STRAIN=TN;
 RC MEDLINE=21128732; PubMed=11234002;
 RX Cole S.T., Eiglmeyer K., Parkhill J., James K.D., Thomson N.R.,
 RA Wheeler P.R., Honore N., Garner T., Churcher C., Harris D.,
 RA Mungall K., Basham D., Brown D., Chillingworth T., Connor R.,
 RA Davies R.M., Devlin K., Doherty K., Feltwell T., Fraser A., Hamlin N.,
 RA Holtroyd S., Hornsby T., Jajays K., Lacroix C., Maclean J., Moule S.,
 RA Murphy L., Oliver K., Quail M.A., Rajandream M.A., Rutherford K.M.,
 RA Rutter S., Seeger K., Simon S., Simmonds M., Skelton J., Squares R.,
 RA Squares S., Stevens K., Taylor K., Whitehead S., Woodward J.R.,
 RA Barrett B.G.;
 RT "Massive gene decay in the leprosy bacillus";
 RL Nature 409:1007-1011(2001).
 CC -1- SIMILARITY: BELONGS TO THE HELICASE FAMILY. SK12 SUBFAMILY.
 CC
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 CC
 CC EMBL: AL035310; CAA22943.1;
 CC EMBL: AL583921; CAC31714.1;
 CC Leptoma: ML1333;
 CC InterPro: IPR001410; DEAD.
 CC InterPro: IPR001650; Helicase_C.
 CC Pfam: PF00270; DEAD. 1.
 CC Pfam: PF00271; helicase_C. 1.
 CC SMART: SM00487; DEXDC. 1.
 CC SMART: SM00490; HELIC. 1.
 CC HydroLase: Helicase; ATP-binding; Complete proteome.
 CC NP_BIND 39 46
 CC SITE 132 135 DEVH BOX.

SQ SEQUENCE 920 AA; 100862 MW; E55FE69E8750A4B4 CRC64;
Query Match 11.4%; Score 72; DB 1; Length 920;
Best Local Similarity 31.2%; Pred. No. 35;
Matches 40; Conservative 9; Mismatches 47; Indels 32; Gaps 7;
QY 2 DRVPCCLLFVGLL-----NPLSFPVDTGEMSLQPLVLEENALRALAELE----- 48
DB 723 DRI-----VGLIERDFIRGPADDPQYTDGRLLR--IYSESDLVAECIRTGAMAG 773
QY 49 -RTALLQTLRQTVGTAEESLGADP-SAEPTPRGSLRKALTGODSNTVLSRLLRTRK 106
DB 774 LRPAELAAVSAVLYETRRDDSGGPGVDAAEAPTPR--LRQALQH-----TSRLSATLRA 825
QY 107 ORKQHGTA 114
DB 826 DEQRHRIA 833

Search completed: March 10, 2003, 17:39:20
Job time : 7.98108 secs

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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:35:28 ; Search time 23.6027 Seconds

(Without alignments)
1073.767 Million cell updates/sec

Title: US-09-831-907A-30

Perfect score: 633
Sequence: 1 MDRPRFCCLFVGLINPLLS.....TRKOROHGTAPECFWRYCI 123

Scoring table:

BLOSUM62
Gapop 10.0 , Capext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: SP archaea:*
2: SP bacteria:*
3: SP fungi:*
4: SP human:*
5: SP invertebrate:*
6: SP mammal:*
7: SP mhc:*
8: SP organelle:*
9: SP phage:*
10: SP plant:*
11: SP rodent:*
12: SP virus:*
13: SP vertebrate:*
14: SP unclassified:*
15: SP virus:*
16: SP bacteriophage:*
17: SP archaea:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	243.5	38.5	121	6	Q95J46
2	234	37.0	139	4	Q8TAU6
3	163.5	25.8	85	6	Q95K72
4	85.5	13.5	783	16	Q92B19
5	81	12.8	470	5	Q9W249
6	80.5	12.7	783	16	Q8Y705
7	77.5	12.2	323	2	Q9WY75
8	77.5	12.2	760	16	Q9RXG0
9	77	12.2	850	5	Q44090
10	77	12.1	850	5	Q9VM02
11	76.5	12.2	582	4	Q9VMI6
12	75.5	11.9	323	2	Q8VWK5
13	75	11.8	272	4	Q9B019
14	74.5	11.8	478	4	Q00153
15	74.5	11.8	468	16	Q9A8X8
16	74.5	11.8	708	16	Q9PEZ6

17	74	11.7	270	2	Q9AMES	Q9ames desulfovibr
18	74	11.7	517	11	Q99K04	Q99K04 mus musculu
19	74	11.7	2399	16	Q8U9P4	Q8U9P4 agrobacteri
20	73.5	11.6	297	11	Q359Z9	Q359Z9 mus musculu
21	73.5	11.6	1144	5	P91389	P91389 caenorhabdi
22	73	11.5	478	11	Q8VDL2	Q8VDL2 mus musculu
23	73	11.5	478	11	Q8R5L2	Q8R5L2 mus musculu
24	73	11.5	538	5	Q9VIR6	Q9VIR6 drosophila
25	73	11.5	823	2	P74862	P74862 salmonella
26	73	11.5	920	16	Q8Z6K9	Q8Z6K9 salmonella
27	73	11.5	920	16	Q8Z6P5	Q8Z6P5 salmonella
28	73	11.5	2362	5	Q9NGR9	Q9NGR9 salmonella
29	72	11.4	240	2	Q9F0V5	Q9F0V5 azoarcus sp
30	72	11.4	274	10	Q8RVE3	Q8RVE3 oryza sativ
31	72	11.4	1289	2	Q9F0C7	Q9F0C7 rickettsia
32	72	11.4	2517	5	Q9W060	Q9W060 drosophila
33	71.5	11.3	297	16	Q8Y092	Q8Y092 ralsconia s
34	71.5	11.3	404	16	Q9K0B4	Q9K0B4 vibrio chol
35	71.5	11.3	886	10	Q9SLN1	Q9SLN1 arabidopsis
36	71.5	11.3	893	16	Q9X1V4	Q9X1V4 thermotoga
37	71.5	11.3	939	16	Q8ZJ68	Q8ZJ68 yersinia pe
38	71	11.2	331	16	Q8REI3	Q8REI3 fusobacteri
39	71	11.2	380	3	Q8TFH7	Q8TFH7 schizosacch
40	71	11.2	426	10	Q9S0T6	Q9S0T6 arabidopsis
41	71	11.2	455	11	Q920L8	Q920L8 mus musculu
42	71	11.2	535	11	Q9E0T7	Q9E0T7 mus musculu
43	71	11.2	570	16	Q8ZP20	Q8ZP20 salmonella
44	71	11.2	574	5	Q9BLT0	Q9BLT0 leishmania
45	71	11.2	602	11	Q91VD3	Q91VD3 mus musculu

ALIGNMENTS

RESULT 1

Q95J46 PRELIMINARY: PRT: 121 AA.

AC 095J46;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
DE Urotensin II transcript variant 1.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suidae; Sus.
OX NCBI_TaxID=9823;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD;
RA Sugo T., Mori M.;
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
RP SEQUENCE FROM N.A.
RC TISSUE=SPINAL CORD;
RA Mori M., Sugo T., Abe M., Shimomura Y., Kurihara M., Kitada C.,
RA Kikuchi K., Shintani Y., Kurokawa T., Onda H., Nishimura O.,
RA Fujino M.;
RT "Urotensin II is the endogenous ligand of a G-protein-coupled orphan
receptor, SENR (GPR14).";
RL Biochem. Biophys. Res. Commun. 265:123-129(1999).
DR EMBL: AB063245; BAB60888.1; -;
DR EMBL: AB063244; BAB60887.1; -;
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; UNKNOWN 1.
SQ SEQUENCE 121 AA: 13580 MW: 656EAB01AF69101B CRC64;

Query Match 38.5%; Score 243.5; DB 6; Length 121;
Best local Similarity 45.7%; Pred. No. 1.1e-15;
Matches 53; Conservative 15; Mismatches 47; Indels 1; Gaps 1;

QY 8 CLFVGLNPLSPVYDTGEMSLQFLVLEBNALRALEEFRTALLQTLRQTVGTEAEGS 67

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DB 7 CULLLCCGLLALFALPVPDSRKEPLPFA--PEDVRSAMDELEFASLLQMLPTEPGAEAGD 65
QY 68 LQADPSAETPPRGRSLRKALTGODSNTVLSRLARTRKORQHGTAPCEFKYCI 123
DB 66 LNEADAGMDIFYPGCEMRKAFSGODPNIFLSHLARIKKPYKKRGPSCFMYCYV 121

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RESULT 2

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OBTAV6 PRELIMINARY: PRT: 139 AA.
AC OBTAV6:
DT 01-JUN-2002 (TREMBLrel. 21, Created)
DT 01-JUN-2002 (TREMBLrel. 21, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Similar to utroensin 2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN 11
RP SEQUENCE FROM N.A.
RC TISSUE-PANCREAS;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/Genbank/DBJ databases.
DR EMBL: BC025776; AAH25776.1;
SQ SEQUENCE 139 AA: 16276 MW: 32DC52936D5BDB6 CRC64:

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Query Match 37.0%; Score 234; DB 4; Length 139;
Best Local Similarity 47.4%; Pred. No. 1e-14;
Matches 55; Conservative 17; Mismatches 38; Indels 6; Gaps 2;

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QY 1 MDVRPCCLLFVGLNPLSPVDTGEMSLQPLVEENALRALFELEFRTALLQTLQRTV 60
DB 1 MKVLASCLLFTGFLPLSLPLDSREISFQLSAPHEDRRLPELEERASLLQILPEMI 60
QY 61 GTEAEGSLCOADPSAETPPRGRSLRK--ALTGDSNTVLSRLART----RKORQ 110
DB 61 GAERGILRKADSTNIFNPRGNLRKRFQDFSGDPPNILLSHLARIMKPYKKORR 116

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RESULT 3

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OBTAV6 PRELIMINARY: PRT: 85 AA.
AC OBTAV6:
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
DE utroensin II transcript variant 2.
OS Sus scrofa (Pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
OX NCBI_TaxID=9823;
RN 11
RP SEQUENCE FROM N.A.
RC TISSUE-SPINAL CORD;
RA Sugo T., Mori M.;
RL Submitted (JUN-2001) to the EMBL/Genbank/DBJ databases.
RN 12
RP SEQUENCE FROM N.A.
RC TISSUE-SPINAL CORD;
RA MEDLINE-20017983; PubMed-10548501;
RA Mori M., Sugo T., Abe M., Shimomura Y., Kurihara M., Kitada C.,
RA Kikuchi K., Shintani Y., Kurokawa T., Onda H., Nishimura O.,
RA Fujino M.;
RA "Uroensin II is the endogenous ligand of a G-protein-coupled orphan
RT receptor, SENR (GPR14).";
RL Biochem. Biophys. Res. Commun. 265:123-129(1999).
DR EMBL: AB063246; BAB60889.1;
DR InterPro: IPR001483; Uroensin_II.
DR Pfam: PF02083; Uroensin_II.1.
DR PROSITE: PS00964; UROENSTIN_II; UNKNOWN_1.
SQ SEQUENCE 85 AA: 9644 MW: F519CFDEFCBA863 CRC64:

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Query Match 25.8%; Score 163.5; DB 6; Length 85;
Best Local Similarity 31.9%; Pred. No. 2.8e-08;
Matches 37; Conservative 11; Mismatches 31; Indels 37; Gaps 1;

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QY 8 CULFVGLNPLSPVDTGEMSLQPLVEENALRALFELEFRTALLQTLQRTVGTAEAGS 67
DB 7 CULLLCCGLLALFALPVPDSRKEPLP----- 32

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QY 68 LQADPSAETPPRGRSLRKALTGODSNTVLSRLARTRKORQHGTAPCEFKYCI 123
DB 33 ---SDAGMDIFYPGCEMRKAFSGODPNIFLSHLARIKKPYKKRGPSCFMYCYV 85

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RESULT 4

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OBTAV6 PRELIMINARY: PRT: 783 AA.
AC OBTAV6:
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Hypothetical protein lin1560.
GN LIN1560.
OS Listeria innocua.
OC Bacteria; Firmicutes; Bacillus/Clostridium group; Bacillales;
OC Listeriaceae; Listeria.
OX NCBI_TaxID=1642;
RN 11
RP SEQUENCE FROM N.A.
RC STRAIN-CLIP 11262 / SEROVAR 6A;
RX PubMed-11679669;
RA Glaser P., Frangeul L., Buchrieser C., Rusnok C., Amend A.,
RA Baquero F., Berche P., Bloeker H., Brandt P., Chakraborty T.,
RA Chablit A., Chetoui F., Couve E., de Daruvar A., Deloux P.,
RA Domann E., Dominguez-Bernal G., Duchaud E., Durant L., Dussauget O.,
RA Entian K.-D., Fsihi H., Garcia-del Portillo F., Garrido P.,
RA Gautier L., Goebel W., Gomez-Lopez N., Hain T., Haut J., Jackson D.,
RA Jones L.-M., Kaerst U., Kretz J., Kuhn M., Kunst F., Kurapkai G.,
RA Madueno E., Mellournau A., Mata Vicente J., Ng E., Nedjari H.,
RA Nordstiek G., Novella S., de Pablos B., Perez-Diaz J.-C., Purcell R.,
RA Rammel B., Rose M., Schlueter T., Simoes N., Tietz A.,
RA Vazquez-Boland J.-A., Voss H., Wehland J., Cossart P.;
RT "Comparative genomics of Listeria species.";
RL Science 294:849-852(2001).
DR EMBL: AL596169; CAC96791.1;
DR ListList; LIN01560;
DR InterPro: IPR003156; DHNA1.
DR InterPro: IPR001667; Psesterase.
DR InterPro: IPR004610; RecJ.
DR Pfam: PF01368; DHH; 1.
DR Pfam: PF02272; DHNA1; 1.
DR TIGRPFams: TIGR00644; recJ; 1.
KW Hypothetical protein; Complete proteome.
SQ SEQUENCE 783 AA: 87598 MW: EC04A20500A6B8AB CRC64:

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Query Match 13.5%; Score 85.5; DB 16; Length 783;
Best Local Similarity 31.9%; Pred. No. 9.7;
Matches 37; Conservative 16; Mismatches 36; Indels 27; Gaps 6;

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QY 9 LRFVGLNPLSPVDTGEMSLQPLVEENALRALFELEFRTALLQTLQRTVGT-- 61
DB 221 LVAVGVYADLV--LTIDENRLVQLGRLQRLRENANGLAVLAKASKLEAEETIGFG 278

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QY 62 ----TEAEGSLGOADPSAET--TPRGRSLRKALTGODSNTVLSRLARTRKORQ 110
DB 279 LARLNAVGRGLPADPADLLITDEPREALFLAEIIDDAN-----KXKKQ 323

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RESULT 5

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OBTAV6 PRELIMINARY: PRT: 470 AA.
AC OBTAV6:
DT 01-MAY-2000 (TREMBLrel. 13, Created)

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QY	13	GLLP-----LISPYTPGMSIOLPYLENALFALEELE--RALLQ-TLRQTVGT	62
Db	324	GLLKPATGVATMAQPTTQAGAAALDLPDGESSGTTLLLEPPGALLHPALRNVTI	38
QY	63	EAECSIOAAP-----SAPETPRGSLKRALVGGDSNYVLSRLLAATRRQROKH	111
Db	384	NIGGGICGRKRLPGLVPRSGNNPTKR-----ITWS-LLAARKSQALH	424

RESULT 6
 08Y705 PRELIMINARY; PRT; 783 AA.
 ID Q8Y705
 AC Q8Y705;
 DT 01-MAR-2002 (TReMBLrel. 20, Created)
 DT 01-MAR-2002 (TReMBLrel. 20, Last sequence update)
 DT 01-JUN-2002 (TReMBLrel. 21, Last annotation update)
 DE Hypothetical protein Imo1525.
 GN Imo1525.
 ON Listeria monocytogenes.
 OC Bacteria; Firmicutes; Bacillus/Clostridium group; Bacillales;
 OC Listeriaceae; Listeria.
 OX NCBI_TaxID=1639;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=EGD-E / SEROVAR 1/2A;
 RX MEDLINE=1537279; PubMed=11679669;
 RA Glaser P., Frangoul L., Buchliesser C., Rusniok C., Amend A.,
 Baquero F., Berche P., Bloeker H., Brandt P., Chakraborty T.,
 Chabdit A., Chetouani F., Couve E., de Daruvar A., Deloux P.,
 Dorian E., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,
 Raman K.-D., Essli H., Garcia G., Garcia del Portillo F., Garrido P.,
 Gautier L., Goebel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,
 Jones L.-M., Kaerst U., Kreft J., Kuhn M., Kunst F., Kurapkut G.,
 Madueno E., Maltoungam A., Mata Vicente J., Ng E., Nedjari H.,
 Norstiek G., Novella S., de Pablos B., Perez-Diaz J.-C., Purcell R.,
 Remmel B., Rose M., Schlueter T., Simoes N., Tierrez A.,
 Vazquez-Boland J.-A., Voss H., Wehland J., Cossart P.;
 RT "Comparative genomes of Listeria species.";
 RL Science 294:849-852(2001).
 DR EMBL; AL591979; CAC99603.1; -
 DR Lifestlist; IMC01525; -
 DR InterPro: IPR003156; DHA1.
 DR InterPro: IPR001667; Pesterase.
 DR InterPro: IPR004610; RecJ.
 DR Pfam: PF01368; DHM1.1.
 DR Pfam: PF02272; DHM1.1.
 DR TIGRFAMS: TIGR00644; recJ.1.
 DR TIGRFAMS: TIGR00644; recJ.1.
 SQ SEQUENCE 783 AA; 87691 MW; 5FA78A3524AD94FD CRC64;
 Query Match 12.7%; Score 80.5; DB 16; Length 783;
 Best Local Similarity 31.0%; Pred. No. 29;
 Matches 36; Conservative 17; Mismatches 36; Indels 27; Gaps
 QY 9 LLEVLNPLLSFPYTDGEMSLQIPV--LEENLRALEELERTALL---QLRQTVG-- 61
 Db 221 LVAVGTVDVLS--LTDEKRLLVQGLKRLRSANGLAVLAKKSLKLEETFEETIGG 278
 QY 62 ----TEAGSLGQADPSAE--TTPRGRSLRFLYTGDSNTVLSRLATRTQRKRO 110
 Db 279 LAPRLNVAVGRGADPADADLLTDEPPEELPLAEETIDAN-----KRRQ 323
 RESULT 7
 Q9NMW5 PRELIMINARY; PRT; 323 AA.
 ID Q9NMW5
 AC Q9NMW5;
 DT 01-NOV-1999 (TReMBLrel. 12, Created)
 DT 01-MAR-1999 (TReMBLrel. 12, Last sequence update)
 DT 01-MAR-2002 (TReMBLrel. 20, Last annotation update)
 DE Putative cointegrate resolution protein S (Tnps protein).
 GN Tnps.
 ON Pseudomonas putida.
 OC Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
 OC Pseudomonas.
 OX NCBI_TaxID=303;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC Tan H.K., Yeo C.C., Poh C.L.;
 RT "Complete nucleotide sequence of Tn4652.";
 DT Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases

George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 Sultion G.C., Mortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
 Brandon R.C., Rogers Y.-H.C., Blazet R.G., Champagne M., Pfeiffer B.D.,
 Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Mikos G.L.G.,
 Abrell J.F., Agdayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,
 Balieu R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
 Borova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
 Burlis K.C., Busan D.A., Butler H., Cadieu E., Center A., Chandra I.,
 Cherry J.M., Cawley S., Dahike C., Davenport L.B., Davies P.,
 de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
 Foster C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 Glodex A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
 Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
 Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Kethum K.A.,
 Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lal Z.,
 Laslo P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 Liu X., Matzel B., McIntosh T.C., McLeod M.P., McPherson D.,
 Merkulov G., Mishina N.V., Mobarry C., Morris J., Moshrefi A.,
 Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
 Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,
 Spler E., Spreading A.C., Stapleton M., Strong R., Sun E.,
 Svirskas R., Tector C., Turner E., Venter E., Wang A.H., Wang X.,
 Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissenbach J.,
 Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
 Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 Gdbbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
 "The genome sequence of *Drosophila melanogaster*.";
 Science 287:2185-2195(2000).
 EMBL: AE003617; AAF52526.1;
 DR FlyBase: FBgn0014015; Rapgap1.
 DR InterPro: IPR003880; Ppantne_attach.
 DR Pfam: PF02145; Rap-GAP.
 DR PROSITE: PS00012; PHOSPHOPANTHEINE; UNKNOWN.1.
 SO SEQUENCE 850 AA; 92893 MW; 47E7F0483CB76BB3 CRC64;

Query Match 12.2%; Score 77; DB 5; Length 850;
 Best Local Similarity 29.0%; Pred. No. 68;
 Matches 38; Conservative 11; Mismatches 52; Indels 30; Gaps 6;

QY 2 DRPFECCLFVGLNPLSFPVT---DTGENSLQLPVLENA-----LRLALEERT 50
 DB 480 DDPVF-----FGPTLPNPAVFRKGQEFKFFILTKLINAENACKAKKALEKLETRTP 531
 QY 51 ALLQTLRQTVGTEAGSGG--ADPSAETPTTGRSLRKALTGQDSN-----TVLSRL 101
 DB 532 SLQWLCELRKRTDFGLTDLSTLSAGSP--ETPKAESGSGGNAGSRFTDYKAL 589
 QY 102 ATRRQRQRQHG 112
 DB 590 MRVRSQSVDTG 600

RESULT 11
 Q9NP16 PRELIMINARY; PRT; 582 AA.
 AC Q9NP16; PRT; 582 AA.
 DT 01-OCT-2000 (TrEMBLrel. 15, Created)
 DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Transcription factor (CDNA FLJ1107 fls, clone PLACE1005803) (SMIF gene).
 GN SMIF.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=PANCREAS;
 RA Bai R.Y., Ouyang T., Hahn S., Peschel C., Dwyer J.;
 RT "SMAD4-interacting transcription factor";
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=PLACENTA;
 RA Itoaka T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y.,
 RA Matsunaka H., Ishii S., Sugano S., Aotsuka S., Yoshikawa Y.,
 RA Nakamura Y., Nagahara K., Masuho Y., Sasaki N.;
 RT "NEO human cDNA sequencing project";
 RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RC TISSUE=MUSCLE;
 RA Strausberg R.;
 RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AJ275966; CAB77023.1;
 DR EMBL: AK001969; BAA92008.1;
 DR EMBL: BC007439; AAH07439.1;
 SO SEQUENCE 582 AA; 63278 MW; 26480DB10CE7C72 CRC64;

Query Match 12.1%; Score 76.5; DB 4; Length 582;
 Best Local Similarity 27.1%; Pred. No. 49;
 Matches 35; Conservative 14; Mismatches 45; Indels 35; Gaps 5;

QY 16 NPLSPFTDTGENSLQLPVLENA-----LRLALEERT 57
 DB 353 SPLNQPVPELSHSL-----IANOSPFRAPLVNTVAGTSLPSVLDLRLRTPQHDQIQ 409
 QY 58 QTVG-----TEAGSLGADPSAETPTTGRSLRKALTGQDSN-----TVLSRL 109
 DB 410 QPLCKGAMVASFSPAQGLATPESFTTPSKTAAARVAASASISNVLAIP-----QSM 463
 QY 110 QHGTAPPCF 118
 DB 464 QQNDPEVF 472

RESULT 12
 Q8VMK5 PRELIMINARY; PRT; 323 AA.
 AC Q8VMK5;
 DT 01-MAR-2002 (TrEMBLrel. 20, Created)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
 DE Putative co-integrate resolution protein S.
 OS Pseudomonas putida.
 OC Plasmid pmw0
 CC Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
 OX NCBI_TaxID=303;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Greated A., Lamberton L., Williams P.A., Thomas C.M.;
 RT "Complete nucleotide sequence of IncP-9 plasmid pmw0";
 RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AJ344068; CAC86784.1;
 DR InterPro: IPR002104; Phage_integrase.
 DR InterPro: IPR004107; Phage_integr-N.
 DR Pfam: PF00588; Phage_integrase; 1.
 DR Pfam: PF02899; Phage_integr-N; 1.
 KW Plasmid.

SO SEQUENCE 323 AA; 35807 MW; 84FB0354D458F5C8 CRC64;
 Query Match 11.9%; Score 75.5; DB 2; Length 323;
 Best Local Similarity 31.2%; Pred. No. 30;
 Matches 29; Conservative 11; Mismatches 40; Indels 13; Gaps 3;

OY 33 LPVLEENALRALEELERTALLQTLRQTVGTEAGSLGQADPS-AETPTPR-----GSLR 85
 DB 35 LPATSONIARIVLEADTSLSTLKRQALAAQWHTGCPDPTKTPYRQVLKGIPTLH 94
 OY 86 KALTGDSNTVLSRL-----IARTKQKQKHG 112
 DB 95 PAQTKQAAPLQHLQALQWLSREAEQAQSQS 127
 RESULT 13
 O9B019 PRELIMINARY: PRT: 272 AA.
 AC O9B019: PRELIMINARY: PRT: 272 AA.
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE Similar to clones 23667 and 23775 zinc finger protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NC NCBL_TaxID=9606;
 RN 11
 RP SEQUENCE FROM N.A.
 RC TISSUE=LUNG;
 RA Strausberg R.;
 RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
 RN 12
 RP SEQUENCE FROM N.A.
 RC TISSUE=LUNG;
 RA Strausberg R.;
 RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL: BC004357; AA04357.1; -
 DR EMBL: BC000330; AA00330.1; -
 DR InterPro: IPR000822; Znf_C2H2.
 DR Pfam: PF00096; Znf_C2H2.1.
 DR SMART: SM00355; ZNF_C2H2.1.
 DR PROSITE: PS00028; ZINC_FINGER_C2H2.1; UNKNOWN_1.
 DR PROSITE: PS50157; ZINC_FINGER_C2H2.2; 1.
 DR Dna-binding; Zinc-finger.
 KW Dna-binding; Zinc-finger.
 SQ SEQUENCE 272 AA; 29761 MW; B3A06732DA0C01F8 CRC64;
 Query Match 11.8%; Score 75; DB 4; Length 272;
 Best Local Similarity 31.8%; Pred. No. 28;
 Matches 28; Conservative 15; Mismatches 39; Indels 6; Gaps 3;
 OY 22 PYDTGEMS-LQLPVLEENALRALEELERTALLQTLRQTVGTEAGSLGQADPSAET 77
 DB 43 PYTEASECSRLMLPDDTTHNSNSSKEVPSAVLRLRVNGPDEETRAQTVQKSPFELS 102
 OY 78 PPRGSLRKALTGDSNTVLSRLAATR 105
 DB 103 TSESSLLQDLQPSDSTSTFT--LLNLTR 128
 RESULT 14
 O00153 PRELIMINARY: PRT: 478 AA.
 AC O00153: PRELIMINARY: PRT: 478 AA.
 DT 01-JUL-1997 (TREMBlrel. 04, Created)
 DT 01-JUL-1997 (TREMBlrel. 04, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Zinc finger protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NC NCBL_TaxID=9606;
 RN 11
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRIN;
 RA MEDLINE=96207227; PubMed=8619474;
 RA Andersson B., Wentland M.A., Ricafrente J.Y., Liu W., Gibbs R.A.;
 RA "A 'double adaptor' method for improved shotgun library

RT construction.";
 RL Anal. Biochem. 236:107-113(1996).
 RN 12
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRIN;
 RA Yu W., Andersson B., Worley K.C., Muzny D.M., Ding Y., Liu W.,
 RA Ricafrente J.Y., Wentland M.A., Lennon G., Gibbs R.A.;
 RT "Large-scale concatenation cDNA sequencing."
 RT Submitted (FEB-1997) to the EMBL/GenBank/DBJ databases.
 CC -1- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
 DR EMBL: U90919; AB51059.1; -
 DR HSSP: P08047; 1SP2.
 DR InterPro: IPR000822; Znf_C2H2.
 DR Pfam: PF00096; Znf_C2H2.1; 5.
 DR PRINTS: PR00048; ZINC_FINGER.
 DR SMART: SM00355; ZNF_C2H2.1; 5.
 DR PROSITE: PS00028; ZINC_FINGER_C2H2.1; 5.
 DR PROSITE: PS50157; ZINC_FINGER_C2H2.2; 5.
 DR Dna-binding; Metal-binding; Nuclear protein; Zinc-finger.
 KW SEQUENCE 478 AA; 52113 MW; 1D7E7E139618F863 CRC64;
 Query Match 11.8%; Score 75; DB 4; Length 478;
 Best Local Similarity 31.8%; Pred. No. 54;
 Matches 28; Conservative 15; Mismatches 39; Indels 6; Gaps 3;
 OY 22 PYDTGEMS-LQLPVLEENALRALEELERTALLQTLRQTVGTEAGSLGQADPSAET 77
 DB 43 PYTEASECSRLMLPDDTTHNSNSSKEVPSAVLRLRVNGPDEETRAQTVQKSPFELS 102
 OY 78 PPRGSLRKALTGDSNTVLSRLAATR 105
 DB 103 TSESSLLQDLQPSDSTSTFT--LLNLTR 128
 RESULT 15
 O9A8X8 PRELIMINARY: PRT: 468 AA.
 AC O9A8X8: PRELIMINARY: PRT: 468 AA.
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
 DE Oxidoreductase, FAD-binding.
 GN CC1219.
 OS Caulobacter crescentus.
 OC Bacteria; Proteobacteria; alpha subdivision; Caulobacter group;
 OC Caulobacter.
 NC NCBL_TaxID=155892;
 RN 11
 RP SEQUENCE FROM N.A.
 RC STRAIN=ATCC 19089 / CB15;
 RX MEDLINE=21173698; PubMed=11259647;
 RA Nieman W.C., Feldblum T.V., Laub M.T., Paulsen I.T., Nelson K.E.,
 RA Eisen J., Heidelberg J.F., Alley M.R.K., Ohta N., Maddock J.R.,
 RA Kolonel J.F., Smit J., Craven R.D., Durkin A.S., Gwin M.L., Haft D.H.,
 RA Deboy R.T., Dodson R.D., Newton A., Stephens C., Phadke N.D., Ely B.,
 RA Utechtack T., Tran K., Wolf A., Vamathevan J., Shetty J., Berry K.,
 RA Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M.;
 RA "Complete genome sequence of Caulobacter crescentus."
 RT Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(2001).
 RL EMBL: AE005798; AAK23201.1; -
 DR TIGR: CC1219; -
 DR InterPro: IPR001575; Oxid_FAD_bind.
 DR Pfam: PF01565; FAD_binding_4; 1.
 KW Complete proteome.
 SQ SEQUENCE 468 AA; 51112 MW; F8B8574B8E13768C3 CRC64;
 Query Match 11.8%; Score 74.5; DB 16; Length 468;
 Best Local Similarity 37.7%; Pred. No. 58;
 Matches 29; Conservative 9; Mismatches 32; Indels 7; Gaps 3;
 OY 28 EMSLQPVLEENALRALEELERTALLQTLRQTVGTEAGSLGQADPSAET--PPRSL 84

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us-09-831-907a-30.rspt

Page 7

Db 337 ENEHLPV--ENQKALEVMRT--ITERPDVFPPIEVRIADDAWLSPPYAPRGSV 392
QY 85 RKALTGODSNTVLSRLL 101
Db 393 AVHAYYRDDFTFLYELI 409

Search completed: March 10, 2003, 17:46:35
Job time : 25.6027 secs

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OS	Mus sp.	Location/Qualifiers
XX	Key	1..20
FT	Peptide	/note="signal peptide"
FT	Peptide	21..106
FT	Peptide	/note="pro-segment"
FT	Peptide	107..123
FT		/note="uticensin II"
XX		
PN	W0200031265-A1.	
XX	02-JUN-2000.	
PD		
XX	26-NOV-1999;	99WO-FR02941.
PF		
XX	26-NOV-1998;	98FR-0014914.
PR		
XX		
XA	(INRM) INST NAT SANTE & RECH MEDICALE.	

XX Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H.
 PI WPI: 2000-400075/34.
 DR N-PSDB; AAA46719.
 XX
 PT New mammalian urotensin II polypeptide, useful for treating
 neurodegeneration and spinal cord injury -
 PS Claim 2; Page 31; 42pp; French.
 CC The present sequence represents a murine prepro-urotensin II polypeptide.
 CC In mammals, urotensin II promotes survival and regeneration of motor
 CC neurons, and also has a hypertensive effect. The urotensin II
 CC polypeptides and polynucleotides are useful for treating
 CC neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
 CC para-plegia or amyotrophic lateral sclerosis). The polypeptides
 CC are also used to screen for specific inhibitors, i.e. potential
 CC antihypertensive agents.
 CC
 SQ Sequence 123 AA:
 Query Match 100.0%; Score 641; DB 21; Length 123;
 Best Local Similarity 100.0%; Pred. No. 3,1e-62;
 Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MDRVPCCLFLIGLNLPLSLPYDTGERTQLPVLIEDALRALEELERMALLQTLRQTM 60
 DB 1 MDRVPCCLFLIGLNLPLSLPYDTGERTQLPVLIEDALRALEELERMALLQTLRQTM 60
 QY 61 GTEAGSPGEAGPSTETPTPRGSMRKAFAQNSNTVLSRLAATRRQKHOGAARPCFWK 120
 DB 61 GTEAGSPGEAGPSTETPTPRGSMRKAFAQNSNTVLSRLAATRRQKHOGAARPCFWK 120
 QY 121 YCI 123
 DB 121 YCI 123
 DB 121 YCI 123
 RESULT 2
 AAB60445
 ID AAB60445 standard; Protein: 123 AA.
 AC AAB60445;
 DT 24-APR-2001 (first entry)
 DE Mouse urotensin II-like peptide precursor protein, SEQ ID NO:26.
 XX
 XX urotensin II-like peptide: precursor protein; mouse; murine; SENR ligand;
 KW drug screening; sensory epithelium neuropeptide-like receptor;
 KW diagnosis; central nervous function; cardiac function;
 KW circulatory function.
 XX
 OS Mus sp.
 XX
 XX WO200104298-A1.
 PN 18-JAN-2001.
 PD 06-JUL-2000; 2000WO-JP04484.
 PF 08-JUL-1999; 99JP-0194091.
 PR (TAKE) TAKEDA CHEM IND LTD.
 PA Sugo T, Kurihara M, Kitada C, Mori M;
 PI WPI: 2001-147192/15.
 DR N-PSDB; AAF59584.
 XX
 XX urotensin II-like peptide originating in rat or mouse and encoded
 PT nucleic acid, useful in study of its physiological effects, for

PT diagnosis and development of drugs for controlling e.g. central nervous
 PT function -
 PS Claim 5; Page 99; 110pp; Japanese.
 XX
 XX The invention relates to novel rat and mouse urotensin II-like peptide
 CC (AAB60443-AAB60444, AAB60446, AAB60449-AAB60452), their amides, esters
 CC or salts, their precursor proteins (AAB60442, AAB60445), and to nucleic
 CC acids encoding the urotensin II-like peptides (AAFS9575-AAFS9576,
 CC AAF59585-AAFS9588) or the urotensin II-like peptide protein precursors
 CC (AAFS9574, AAF59584). The urotensin II-like peptides are ligands of the
 CC sensory epithelium neuropeptide-like receptor (SENR). The invention also
 CC relates to vectors and transformants comprising the novel nucleic acid
 CC sequences, the recombinant production of the rat or mouse urotensin II-
 CC like peptides or their precursors, an antibody against a urotensin II-
 CC like peptide or precursor, a method of screening for compounds which can
 CC modulate the binding of urotensin II-like peptides to the SENR, the
 CC compounds thus identified, and a method of quantitating urotensin II-like
 CC peptides or their precursors. The peptides and proteins, and nucleic
 CC acids encoding them are useful in study of the physiological effects of
 CC urotensin II-like peptide/SENR interactions, and for the diagnosis and
 CC development of drugs (including gene therapy compositions) for modulating
 CC e.g., central nervous function, cardiac function and circulatory
 CC function. The present sequence represents the mouse urotensin II-like
 CC peptide precursor protein of the invention.
 CC
 SQ Sequence 123 AA:
 Query Match 100.0%; Score 641; DB 22; Length 123;
 Best Local Similarity 100.0%; Pred. No. 3,1e-62;
 Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MDRVPCCLFLIGLNLPLSLPYDTGERTQLPVLIEDALRALEELERMALLQTLRQTM 60
 DB 1 MDRVPCCLFLIGLNLPLSLPYDTGERTQLPVLIEDALRALEELERMALLQTLRQTM 60
 QY 61 GTEAGSPGEAGPSTETPTPRGSMRKAFAQNSNTVLSRLAATRRQKHOGAARPCFWK 120
 DB 61 GTEAGSPGEAGPSTETPTPRGSMRKAFAQNSNTVLSRLAATRRQKHOGAARPCFWK 120
 QY 121 YCI 123
 DB 121 YCI 123
 DB 121 YCI 123
 RESULT 3
 AAB60124
 ID AAB60124 standard; Protein: 123 AA.
 AC AAB60124;
 DT 07-OCT-2002 (first entry)
 DE Mouse urotensin II-like peptide #1.
 XX
 XX SENR: sensory epithelium neuropeptide-like receptor; mouse; fear;
 KW attention deficit disorder; narcolepsy; anxiety; depression; insomnia;
 KW schizophrenia; G protein-coupled; receptor.
 XX
 OS Mus sp.
 XX
 XX WO200214513-A1.
 PN 21-FEB-2002..
 PD 10-AUG-2001; 2001WO-JP06899.
 PF 10-AUG-2000; 2000JP-0247968.
 PR
 XX

PA (TAKE) TAKEDA CHEM IND LTD.
XX
XX Matsumoto Y, Watanabe T, Takahashi H, Mori M;
XX
XX WPI: 2002-329576/36.
XX
XX N-PSDB; ABR50030.
XX
XX Polypeptide GPR12 with ligand activity to sensor epithelium
XX
XX neuropeptide-like receptor, useful e.g. in treating attention deficit
XX
XX disorder or narcolepsy, or for screening drug candidates for these
XX
XX indications and for anxiety -
XX
XX
XX Claim 6; Page 280; 290pp; Japanese.
XX
XX
XX This invention relates to an anti-attention deficit disorder or anti-
XX
XX narcolepsy agent containing a polypeptide with a sequence identical or
XX
XX substantially similar to a fully defined 12 amino acid sequence given in
XX
XX the specification, and its amide, ester or their salt. The peptides
XX
XX have ligand activity to sensory epithelium neuropeptide-like receptor
XX
XX (SENR) protein. The invention also includes a method for diagnosing
XX
XX attention deficit disorder, narcolepsy, anxiety, depression, insomnia,
XX
XX schizophrenia or fear. The polypeptides of the invention, their
XX
XX precursor proteins and their encoding DNAs are useful in treating
XX
XX attention deficit disorder or narcolepsy, or for screening drug
XX
XX candidates for these indications and for anxiety, depression, insomnia,
XX
XX schizophrenia or fear. They are also useful for gene therapy. The
XX
XX polypeptide is a G protein-coupled receptor protein, with ligand
XX
XX activity to sensor epithelium neuropeptide-like receptor. The present
XX
XX sequence represents the mouse neurotensin II-like peptide of the
XX
XX invention.
XX
XX
XX Sequence 123 AA:
SQ
Query Match 100.0%; Score 641; DB 23; Length 123;
Best Local Similarity 100.0%; Pred. No. 3.1e-62;
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MDRVPCCLLFGLINPLSLPVTDTGERTQLPVLBEDALRALEELERMALLQTLRQTM 60
DB 1 MDRVPCCLLFGLINPLSLPVTDTGERTQLPVLBEDALRALEELERMALLQTLRQTM 60
QY 61 GTEGESPEGEAGPSTETPTPGSMKRAFAAGONSNTVLSRLIARTRKQKHGAAPCECFWK 120
DB 61 GTEGESPEGEAGPSTETPTPGSMKRAFAAGONSNTVLSRLIARTRKQKHGAAPCECFWK 120
QY 121 YCI 123
DB 121 YCI 123
DB 121 YCI 123
RESULT 4
AAY93644
ID AAY93644 standard; Protein: 123 AA.
XX
XX AAY93644;
XX
XX 25-SEP-2000 (first entry)
XX
XX Amino acid sequence of rat prepro-urotensin II (UII) polypeptide.
XX
XX Urotensin II; motor neuron; hypertensive; neurodegeneration;
XX
XX spinal cord trauma; hemi-plegia; para-plegia;
XX
XX amyotrophic lateral sclerosis; antihypertensive agent.
XX
XX Rattus sp.
XX
XX
XX Key Location/Qualifiers
XX
XX Peptide 1..20
XX
XX Peptide /note="signal peptide"
XX
XX Peptide 21..109
XX
XX Peptide /note="pro-segment peptide"
XX
XX Peptide 110..123
XX
XX /note="urotensin II peptide"

XX
XX PN WO200031265-A1.
XX
XX PD 02-JUN-2000.
XX
XX 26-NOV-1999; 99WO-FR02941.
XX
XX 26-NOV-1998; 98FR-0014914.
XX
XX (INRM) INST NAT SANTE & RECH MEDICALE.
XX
XX
XX Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;
XX
XX WPI: 2000-400075/34.
XX
XX N-PSDB; AAA46710.
XX
XX New mammalian urotensin II polypeptide, useful for treating
XX
XX neurodegeneration and spinal cord injury -
XX
XX
XX Disclosure; Page 30; 42pp; French.
XX
XX
XX The present sequence represents a rat prepro-urotensin II polypeptide.
XX
XX In mammals, urotensin II promotes survival and regeneration of motor
XX
XX neurons, and also has a hypertensive effect. The urotensin II
XX
XX polypeptides and polynucleotides are useful for treating
XX
XX neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
XX
XX para-plegia or amyotrophic lateral sclerosis). The polypeptides
XX
XX are also used to screen for specific inhibitors, i.e. potential
XX
XX antihypertensive agents.
XX
XX
XX Sequence 123 AA:
SQ
Query Match 84.4%; Score 541; DB 21; Length 123;
Best Local Similarity 84.6%; Pred. No. 2.7e-51;
Matches 104; Conservative 7; Mismatches 12; Indels 0; Gaps 0;
QY 1 MDRVPCCLLFGLINPLSLPVTDTGERTQLPVLBEDALRALEELERMALLQTLRQTM 60
DB 1 MDRVPCCLLFGLINPLSLPVTDTGEMSQLPVLBNALRALEELERMALLQTLRQTV 60
QY 61 GTEGESPEGEAGPSTETPTPGSMKRAFAAGONSNTVLSRLIARTRKQKHGAAPCECFWK 120
DB 61 GTEGESPEGEAGPSTETPTPGSLRKAALTGDSNTVLSRLIARTRKQKHGAAPCECFWK 120
QY 121 YCI 123
DB 121 YCI 123
DB 121 YCI 123
RESULT 5
AAB60442
ID AAB60442 standard; Protein: 123 AA.
XX
XX AAB60442;
XX
XX 24-APR-2001 (first entry)
XX
XX Rat urotensin II-like peptide precursor protein, SEQ ID NO:13.
XX
XX Urotensin II-like peptide; precursor protein; rat; SENR ligand;
XX
XX drug screening; sensory epithelium neuropeptide-like receptor;
XX
XX diagnosis; central nervous function; cardiac function;
XX
XX Rattus sp.
XX
XX
XX Key Location/Qualifiers
XX
XX PN WO200104298-A1.
XX
XX PD 18-JAN-2001.
XX
XX 06-JUL-2000; 2000WO-JP04484.
XX
XX 08-JUL-1999; 99JP-0194091.


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FT      /note="pro-segment"  
FT      87..103  
FT      /note="urotensin II"  
XX  
XX      WO200031265-A1.  
XX  
XX      02-JUN-2000.  
XX  
XX      26-NOV-1999; 99MO-FR02941.  
XX  
XX      26-NOV-1998; 98FR-0014914.  
XX  
XX      (INRM ) INST NAT SANTE & RECH MEDICALE.  
XX  
XX      Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;  
XX      WPI; 2000-400075/34.  
XX      N-PSDB; AAA46720.  
XX  
XX      New mammalian urotensin II polypeptide, useful for treating  
XX      neurodegeneration and spinal cord injury -  
XX  
XX      Claim 2; Page 32; 42pp; French.  
XX  
XX      The present sequence represents a murine pro-urotensin II polypeptide.  
XX      In mammals, urotensin II promotes survival and regeneration of motor  
XX      neurons, and also has a hypertensive effect. The urotensin II  
XX      polypeptides and polynucleotides are useful for treating  
XX      neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,  
XX      para-plegia or amyotrophic lateral sclerosis). The polypeptides  
XX      are also used to screen for specific inhibitors, i.e. potential  
XX      antihypertensive agents.  
XX  
XX      Sequence 103 AA:  
XX  
XX      Query Match 83.2%; Score 533; DB 21; Length 103;  
XX      Best Local Similarity 100.0%; Pred. No. 1.6e-50;  
XX      Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
XX      21 LPVDTGERTLOLPVLEEDALRALEELERMAALLQTLROTGTGEGSPGEGSPSTETPTP 80  
XX      1 LPVDTGERTLOLPVLEEDALRALEELERMAALLQTLROTGTGEGSPGEGSPSTETPTP 60  
XX  
XX      81 RGSMRKAFAGQNSNTVLSRLARTRKQKHOGAPECFWKTCI 123  
XX      61 RGSMRKAFAGQNSNTVLSRLARTRKQKHOGAPECFWKTCI 103  
XX  
XX      RESULT 8  
XX      AAY93645  
XX      AAY93645 standard; Protein; 103 AA.  
XX  
XX      AAY93645;  
XX  
XX      25-SEP-2000 (first entry)  
XX  
XX      Amino acid sequence of rat pro-urotensin II (UII) polypeptide.  
XX      Urotensin II; motor neuron; hypertensive; neurodegeneration;  
XX      spinal cord trauma; hemi-plegia; para-plegia;  
XX      amyotrophic lateral sclerosis; antihypertensive agent.  
XX  
XX      Rattus sp.  
XX  
XX      Key Location/Qualifiers  
XX      Peptide 1..89  
XX      FT /note="pro-segment"  
XX      FT 90..103  
XX      FT Peptide /note="urotensin II peptide"  
XX  
XX      WO200031265-A1.  
XX      02-JUN-2000.  
XX
```

```
XX      26-NOV-1999; 99MO-FR02941.  
XX      26-NOV-1998; 98FR-0014914.  
XX      (INRM ) INST NAT SANTE & RECH MEDICALE.  
XX      Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;  
XX      WPI; 2000-400075/34.  
XX      N-PSDB; AAA46711.  
XX  
XX      New mammalian urotensin II polypeptide, useful for treating  
XX      neurodegeneration and spinal cord injury -  
XX  
XX      Claim 2; Page 30-31; 42pp; French.  
XX  
XX      The present sequence represents a rat pro-urotensin II polypeptide.  
XX      In mammals, urotensin II promotes survival and regeneration of motor  
XX      neurons, and also has a hypertensive effect. The urotensin II  
XX      polypeptides and polynucleotides are useful for treating  
XX      neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,  
XX      para-plegia or amyotrophic lateral sclerosis). The polypeptides  
XX      are also used to screen for specific inhibitors, i.e. potential  
XX      antihypertensive agents.  
XX  
XX      Sequence 103 AA:  
XX  
XX      Query Match 67.7%; Score 434; DB 21; Length 103;  
XX      Best Local Similarity 83.3%; Pred. No. 1.1e-39;  
XX      Matches 85; Conservative 6; Mismatches 11; Indels 0; Gaps 0;  
XX  
XX      22 PVPDTGERTLOLPVLEEDALRALEELERMAALLQTLROTGTGEGSPGEGSPSTETPTP 81  
XX      2 PVPDTGEMSLQLPVLEENALRALEELERTALQTLROTGTGEGSLGQADPSAETPTPR 61  
XX  
XX      82 GSRKRAFAGQNSNTVLSRLARTRKQKHOGAPECFWKTCI 123  
XX      62 GSRKALTGQDSNTVLSRLARTRKQKHOGTAPECFWKTCI 103  
XX
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```
XX      RESULT 9  
XX      AAB12501  
XX      AAB12501 standard; Protein; 122 AA.  
XX  
XX      AAB12501;  
XX  
XX      27-OCT-2000 (first entry)  
XX  
XX      Bovine SENR ligand protein sequence SEQ ID NO:29.  
XX  
XX      SENR; sensory epithelium neuropeptide-like receptor; urotensin II;  
XX      diagnosis; G protein-coupled receptor; hypertension; GPR14; hormone;  
XX      kidney disease; regulator; central function; circulatory function;  
XX      heart function; immune system function; digestive function;  
XX      metabolic function; genital function.  
XX  
XX      Bos taurus.  
XX  
XX      WO200032627-A1.  
XX      08-JUN-2000.  
XX  
XX      29-NOV-1999; 99MO-JP06649.  
XX  
XX      30-NOV-1998; 98JP-0338984.  
XX      04-FEB-1999; 99JP-0026848.  
XX      26-AUG-1999; 99JP-0239367.  
XX      (TAKE ) TAKEDA CHEM IND LTD.  
XX      Mori M, Abe M, Shimomura Y, Sugo T, Kitada C;  
XX
```

DR WPI: 2000-412287/35.
 XX
 XX Uroctensin peptides which are ligands for sensory epithelium
 PT neuropeptide-like receptor (SENR) for diagnosis and treatment of
 XX hypertension
 XX
 PS Example 36: Page 140-141; 147pp; Japanese.
 CC The present invention provides peptides which are ligands for sensory
 CC epithelium neuropeptide-like receptor (SENR), and their amides, esters
 CC and salts. SENR is a G-protein coupled receptor protein (also known as
 CC GPR44), and the peptides which are ligands for it are forms of the
 CC peptide hormone uroctensin II. The peptides can be used in the treatment
 CC and diagnosis of hypertension and kidney disease, and the development of
 CC drugs which are regulators of central functions, circulatory functions,
 CC heart functions, immune system functions, digestive functions, metabolic
 CC functions and genital functions. The present sequence represents a
 CC bovine SENR ligand protein from the present invention.
 XX
 SQ Sequence 122 AA:
 Query Match 48.8%; Score 312.5; DB 21; Length 122;
 Best Local Similarity 52.8%; Pred. No. 2.7e-26;
 Matches 65; Conservative 16; Mismatches 41; Indels 1; Gaps 1;
 QY 1 MDRVPCCLFGLNPLSLPYDTGERTLQPLVEEDALRALEELERMALLQTLRQTM 60
 Db 1 MYKLVSCLLFGLISLNPPLSLPYLDSRQESLQ-LAPEVRSRLDELERSLLQMLPEMS 59
 QY 61 GTAGSGSPGAGSTETPPRGSMSKRAFGQNSNTVLSRLARTRKQKHOGCAAPCFWK 120
 Db 60 GATGEGGLRNTDPTNIFYPRGSMRRAFGSQDPLFLSLRSIRKQSKRGPSSCFWK 119
 QY 121 YCI 123
 Db 120 YCV 122
 RESULT 10
 AAU80120
 ID AAU80120 standard; Protein: 122 AA.
 AC AAU80120;
 XX
 XX
 DT 07-OCT-2002 (first entry)
 XX
 DE Cow sensory epithelium neuropeptide-like receptor (SENR) protein.
 XX
 XX SENR: Sensory epithelium neuropeptide-like receptor; cow; fear;
 KW attention deficit disorder; narcolepsy; anxiety; depression; insomnia;
 KW schizophrenia; G protein-coupled; receptor.
 XX
 OS Bos taurus.
 OS
 PN WO200214513-A1.
 XX
 PD 21-FEB-2002.
 XX
 PF 10-AUG-2001; 2001WO-JP06899.
 XX
 PR 10-AUG-2000; 2000JP-0247968.
 XX
 PA (TAKE) TAKEDA CHEM IND LTD.
 PI
 PI Matsumoto Y, Watanabe T, Takahashi H, Mori M;
 XX
 XX WPI: 2002-329576/36.
 XX
 XX Polypeptide GPR12 with ligand activity to sensor epithelium
 PT neuropeptide-like receptor, useful e.g. in treating attention deficit
 PT disorder or narcolepsy, or for screening drug candidates for these
 PT indications and for anxiety
 XX

PS Claim 6: Page 276; 290pp; Japanese.
 XX
 XX This invention relates to an anti-attention deficit disorder or anti-
 CC narcolepsy agent containing a polypeptide with a sequence identical or
 CC substantially similar to a fully defined 12 amino acid sequence given in
 CC the specification, and its amide, ester or their salt. The peptides
 CC have ligand activity to sensory epithelium neuropeptide-like receptor
 CC (SENR) protein. The invention also includes a method for diagnosing
 CC attention deficit disorder, narcolepsy, anxiety, depression, insomnia,
 CC schizophrenia or fear. The polypeptides of the invention, their
 CC precursor proteins and their encoding DNAs are useful in treating
 CC attention deficit disorder or narcolepsy, or for screening drug
 CC candidates for these indications and for anxiety, depression, insomnia,
 CC schizophrenia or fear. They are also useful for gene therapy. The
 CC polypeptide is a G protein-coupled receptor protein, with ligand
 CC activity to sensor epithelium neuropeptide-like receptor. The present
 CC sequence represents the cow sensory endothelium neuropeptide-like
 CC receptor protein of the invention.
 XX
 SQ Sequence 122 AA:
 Query Match 48.8%; Score 312.5; DB 23; Length 122;
 Best Local Similarity 52.8%; Pred. No. 2.7e-26;
 Matches 65; Conservative 16; Mismatches 41; Indels 1; Gaps 1;
 QY 1 MDRVPCCLFGLNPLSLPYDTGERTLQPLVEEDALRALEELERMALLQTLRQTM 60
 Db 1 MYKLVSCLLFGLISLNPPLSLPYLDSRQESLQ-LAPEVRSRLDELERSLLQMLPEMS 59
 QY 61 GTAGSGSPGAGSTETPPRGSMSKRAFGQNSNTVLSRLARTRKQKHOGCAAPCFWK 120
 Db 60 GATGEGGLRNTDPTNIFYPRGSMRRAFGSQDPLFLSLRSIRKQSKRGPSSCFWK 119
 QY 121 YCI 123
 Db 120 YCV 122
 RESULT 11
 AAY93639
 ID AAY93639 standard; Protein: 124 AA.
 XX
 XX
 AC AAY93639;
 XX
 XX
 DT 25-SEP-2000 (first entry)
 XX
 DE Amino acid sequence of a human prepro-uroctensin II (Urr) polypeptide.
 XX
 XX
 XX Uroctensin II: motor neuron; hypertensive; neurodegeneration;
 KW spinal cord trauma; hemi-plegia; para-plegia.
 KW amyotrophic lateral sclerosis; antihypertensive agent.
 XX
 XX Homo sapiens.
 OS
 OS
 FH Key Location/Qualifiers
 FT Peptide 1..20
 FT Peptide /note="signal peptide"
 FT Peptide 21..110
 FT /note="pro-segment of uroctensin II"
 FT Misc-difference 46 /note="encoded by GAC"
 FT Misc-difference 47 /note="encoded by GTA"
 FT Misc-difference 81 /note="encoded by ATT"
 FT Peptide 114..124 /note="uroctensin II"
 FT
 XX
 XX WO200031265-A1.
 PN
 PN 02-JUN-2000.
 PD
 XX
 XX 26-NOV-1999; 99WO-FR02941.
 PF

XX 26-NOV-1998: 98FR-0014914.
XX (INRM) INST NAT SANTE & RECH MEDICALE.
XX Beauvillain J, Coulouarn Y, Jegou S, Lihmann I, Vaudry H;
XX WPI: 2000-400075/34.
XX N-PSDB; AAA46698.
XX New mammalian urotensin II polypeptide, useful for treating
XX neurodegeneration and spinal cord injury -
XX Claim 2: Fig 2: 42pp; French.
XX The present sequence represents a human prepro-urotensin II polypeptide.
XX in mammals, urotensin II promotes survival and regeneration of motor
XX neurons, and also has a hypertensive effect. The urotensin II
XX polypeptides and polynucleotides are useful for treating
XX neurodegeneration and trauma of the spinal cord (e.g. hemi-plegia,
XX para-plegia or amyotrophic lateral sclerosis). The polypeptides
XX are also used to screen for specific inhibitors, i.e. potential
XX antihypertensive agents.
XX Sequence 124 AA:
SQ
Query Match 44.7%; Score 286.5; DB 21: Length 124;
Best Local Similarity 49.6%; Pred. No. 1.9e-23;
Matches 62; Conservative 19; Mismatches 41; Indels 3; Gaps 2;
QY 1 MDRVPCCLFIFGLNPLSLPVTGERTLQPLVEEDALRALEELERALLQTLRQTM 60
DB 1 MYKLASCCLEIFGLNPLSLPLDSREISFQLSAPHEDDRTPPEELERASLLQILPEML 60
QY 61 GTGAGESPGAGSTETPRGSMRK--AFAGONSNTVLRLARTKQKHGAPECF 118
DB 61 GAERGDLIRKADSTNIFNPRGNLRKFQDFSGQDPNLLSHLARIMKPKRR-ETPDCF 119
QY 119 WKYCI 123
DB 120 WKYCV 124
RESULT 12
ID AAY87319 standard: protein; 124 AA.
XX AAY87319;
XX 11-MAY-2000 (first entry)
XX Human signal peptide containing protein HSP-96 SEQ ID NO:96.
XX Human: signal peptide-containing protein; HSP; diagnosis; cancer;
XX inflammation; cardiovascular disease; anticancer; anti-inflammatory;
XX antibiotic; neuroprotective; cardiovascular; hepatotropic;
XX antistatic; gene therapy; cell proliferation; neurological disorder;
XX reproductive disorder; developmental disorder; arteriosclerosis;
XX cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
XX asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
XX Parkinson's disease; Huntington's diseases; ovulatory defect;
XX muscular dystrophy.
OS Homo sapiens.
XX
XX WO200000610-A2.
XX
XX 06-JAN-2000.
XX
XX 25-JUN-1999: 99WO-US14484.
XX
XX 26-JUN-1998: 98US-0090762.
XX
XX 31-JUL-1998: 98US-0094983.

PR 01-OCT-1998: 98US-0102686.
PR 11-DEC-1998: 98US-0112129.
XX
XX (INCY-) INCYTE PHARM INC.
XX Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR;
XX PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;
XX Bandman O;
XX WPI: 2000-160673/14.
XX N-PSDB; AA298204.
XX New human signal peptide-containing proteins useful in treatment,
XX prevention and diagnosis of e.g. cancer, inflammation and
XX cardiovascular disease -
XX Claim 1: Page 221-222; 327pp; English.
XX AA298109 to AA298242 encode AAY87224 to AAY87357 which represent the
XX human signal peptide-containing proteins HSP-1 to HSP-134. HSPs have
XX anticancer, anti-inflammatory, antimicrobial, neurotropic, hepatotropic,
XX neuroprotective, cardiovascular and antistatic activities, and can
XX be used in gene therapy. HSPs can be used to treat or prevent disorders
XX associated with decreased activity or function of HSP. Antagonists of
XX HSP are used to treat or prevent disorders associated with increased
XX activity or function of HSP. Such diseases include cell proliferation
XX (including cancer), inflammation, cardiovascular, neurological,
XX reproductive or developmental disorders, (e.g. arteriosclerosis,
XX cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia,
XX asthma, Crohn's disease, microbial or other infections, congestive or
XX ischemic heart disease, Alzheimer's, Parkinson's or Huntington's
XX diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSP
XX nucleic acids can be used for the recombinant production of HSP, for
XX detecting HSP in standard hybridisation and amplification assays (for
XX diagnosis and monitoring), in gene therapy, as antisense,
XX triplex-forming or ribozyme therapeutics, for detecting related sequences
XX or genetic variations, and for chromosomal mapping. HSP are also used to
XX raise specific antibodies (Ab) and to screen for agonists and
XX antagonists (potential therapeutic agents). Ab are used to diagnose, or
XX monitor, HSP-related diseases (in usual immunoassays), as therapeutic
XX antagonists, in competitive drug screens, and for purification of HSP
XX from natural sources.
SQ Sequence 124 AA:
Query Match 44.7%; Score 286.5; DB 21: Length 124;
Best Local Similarity 49.6%; Pred. No. 1.9e-23;
Matches 62; Conservative 19; Mismatches 41; Indels 3; Gaps 2;
QY 1 MDRVPCCLFIFGLNPLSLPVTGERTLQPLVEEDALRALEELERALLQTLRQTM 60
DB 1 MYKLASCCLEIFGLNPLSLPLDSREISFQLSAPHEDDRTPPEELERASLLQILPEML 60
QY 61 GTGAGESPGAGSTETPRGSMRK--AFAGONSNTVLRLARTKQKHGAPECF 118
DB 61 GAERGDLIRKADSTNIFNPRGNLRKFQDFSGQDPNLLSHLARIMKPKRR-ETPDCF 119
QY 119 WKYCI 123
DB 120 WKYCV 124
RESULT 13
ID AAY66707 standard: protein; 124 AA.
XX AAY66707;
XX
XX 05-APR-2000 (first entry)
XX
XX Membrane-bound protein PRO1068.
XX
XX Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand;
XX

KW	pharmaceutical; receptor immunoadhesin; gene mapping.	
XX		
OS	Homo sapiens.	
XX	W09963088-A2.	
PN		
XX		
PD	09-DEC-1999.	
XX		
PF	02-JUN-1999; 99WO-US12252.	
XX		
PR	02-JUN-1998; 98US-0087607.	PR 24-JUN-1998; 98US-0090540.
PR	02-JUN-1998; 98US-0087609.	PR 24-JUN-1998; 98US-0090557.
PR	02-JUN-1998; 98US-0087759.	PR 25-JUN-1998; 98US-0090676.
PR	03-JUN-1998; 98US-0087827.	PR 25-JUN-1998; 98US-0090678.
PR	04-JUN-1998; 98US-0088021.	PR 25-JUN-1998; 98US-0090688.
PR	04-JUN-1998; 98US-0088025.	PR 25-JUN-1998; 98US-0090690.
PR	04-JUN-1998; 98US-0088028.	PR 25-JUN-1998; 98US-0090691.
PR	04-JUN-1998; 98US-0088029.	PR 25-JUN-1998; 98US-0090694.
PR	04-JUN-1998; 98US-0088030.	PR 25-JUN-1998; 98US-0090695.
PR	04-JUN-1998; 98US-0088033.	PR 25-JUN-1998; 98US-0090696.
PR	04-JUN-1998; 98US-0088326.	PR 25-JUN-1998; 98US-0090696.
PR	05-JUN-1998; 98US-0088167.	PR 26-JUN-1998; 98US-0090662.
PR	05-JUN-1998; 98US-0088202.	PR 26-JUN-1998; 98US-0090683.
PR	05-JUN-1998; 98US-0088212.	PR 01-JUL-1998; 98US-0091358.
PR	05-JUN-1998; 98US-0088217.	PR 01-JUL-1998; 98US-0091360.
PR	09-JUN-1998; 98US-0088655.	PR 01-JUL-1998; 98US-0091360.
PR	10-JUN-1998; 98US-0088722.	PR 02-JUL-1998; 98US-0091544.
PR	10-JUN-1998; 98US-0088730.	PR 02-JUL-1998; 98US-0091478.
PR	10-JUN-1998; 98US-0088734.	PR 02-JUL-1998; 98US-0091486.
PR	10-JUN-1998; 98US-0088738.	PR 02-JUL-1998; 98US-0091519.
PR	10-JUN-1998; 98US-0088740.	PR 02-JUL-1998; 98US-0091626.
PR	10-JUN-1998; 98US-0088741.	PR 02-JUL-1998; 98US-0091628.
PR	10-JUN-1998; 98US-0088742.	PR 02-JUL-1998; 98US-0091633.
PR	10-JUN-1998; 98US-0088810.	PR 02-JUL-1998; 98US-0091646.
PR	10-JUN-1998; 98US-0088811.	PR 02-JUL-1998; 98US-0091673.
PR	10-JUN-1998; 98US-0088824.	PR 07-JUL-1998; 98US-0091978.
PR	10-JUN-1998; 98US-0088825.	PR 07-JUL-1998; 98US-0091982.
PR	10-JUN-1998; 98US-0088826.	PR 09-JUL-1998; 98US-0092182.
PR	11-JUN-1998; 98US-0088858.	PR 10-JUL-1998; 98US-0092472.
PR	11-JUN-1998; 98US-0088861.	PR 20-JUL-1998; 98US-0093339.
PR	11-JUN-1998; 98US-0088863.	PR 30-JUL-1998; 98US-0094651.
PR	11-JUN-1998; 98US-0088876.	PR 04-AUG-1998; 98US-0095282.
PR	12-JUN-1998; 98US-0089090.	PR 04-AUG-1998; 98US-0095285.
PR	12-JUN-1998; 98US-0089105.	PR 04-AUG-1998; 98US-0095301.
PR	16-JUN-1998; 98US-0089440.	PR 04-AUG-1998; 98US-0095302.
PR	16-JUN-1998; 98US-0089512.	PR 04-AUG-1998; 98US-0095318.
PR	16-JUN-1998; 98US-0089514.	PR 04-AUG-1998; 98US-0095321.
PR	17-JUN-1998; 98US-0089532.	PR 04-AUG-1998; 98US-0095325.
PR	17-JUN-1998; 98US-0089538.	PR 10-AUG-1998; 98US-0095816.
PR	17-JUN-1998; 98US-0089598.	PR 10-AUG-1998; 98US-0095929.
PR	17-JUN-1998; 98US-0089600.	PR 10-AUG-1998; 98US-0096012.
PR	17-JUN-1998; 98US-0089653.	PR 11-AUG-1998; 98US-0096143.
PR	18-JUN-1998; 98US-0089801.	PR 11-AUG-1998; 98US-0096146.
PR	18-JUN-1998; 98US-0089907.	PR 12-AUG-1998; 98US-0096329.
PR	18-JUN-1998; 98US-0089908.	PR 12-AUG-1998; 98US-0096329.
PR	19-JUN-1998; 98US-0089947.	PR 17-AUG-1998; 98US-0096766.
PR	19-JUN-1998; 98US-0089948.	PR 17-AUG-1998; 98US-0096768.
PR	19-JUN-1998; 98US-0089952.	PR 17-AUG-1998; 98US-0096773.
PR	22-JUN-1998; 98US-0090246.	PR 17-AUG-1998; 98US-0096791.
PR	22-JUN-1998; 98US-0090252.	PR 17-AUG-1998; 98US-0096867.
PR	22-JUN-1998; 98US-0090254.	PR 17-AUG-1998; 98US-0096891.
PR	23-JUN-1998; 98US-0090254.	PR 17-AUG-1998; 98US-0096894.
PR	23-JUN-1998; 98US-0090349.	PR 17-AUG-1998; 98US-0096895.
PR	23-JUN-1998; 98US-0090355.	PR 17-AUG-1998; 98US-0096897.
PR	24-JUN-1998; 98US-0090429.	PR 18-AUG-1998; 98US-0096949.
PR	24-JUN-1998; 98US-0090431.	PR 18-AUG-1998; 98US-0096950.
PR	24-JUN-1998; 98US-0090435.	PR 18-AUG-1998; 98US-0096959.
PR	24-JUN-1998; 98US-0090444.	PR 18-AUG-1998; 98US-0096960.
PR	24-JUN-1998; 98US-0090445.	PR 18-AUG-1998; 98US-0097022.
PR	24-JUN-1998; 98US-0090461.	PR 19-AUG-1998; 98US-0097141.
PR	24-JUN-1998; 98US-0090472.	PR 20-AUG-1998; 98US-0097218.
PR	24-JUN-1998; 98US-0090535.	PR 24-AUG-1998; 98US-0097661.
PR	24-JUN-1998; 98US-0090538.	PR 26-AUG-1998; 98US-0097951.
PR		PR 26-AUG-1998; 98US-0097952.
PR		PR 26-AUG-1998; 98US-0097954.
PR		PR 26-AUG-1998; 98US-0097955.
PR		PR 26-AUG-1998; 98US-0097971.
PR		PR 26-AUG-1998; 98US-0097974.
PR		PR 26-AUG-1998; 98US-0097978.
PR		PR 26-AUG-1998; 98US-0097979.
PR		PR 26-AUG-1998; 98US-0097986.
PR		PR 26-AUG-1998; 98US-0098014.
PR		PR 31-AUG-1998; 98US-0098525.
PR		PR 16-SEP-1998; 98US-0100634.
PR		PR 12-JAN-1999; 99US-0115565.

XX (GETH) GENENTECH INC.
 PA Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
 XX Wood WI, Ylan J;
 PI WPI: 2000-072883/06.
 XX DR N-PSDB: AAF30060.
 XX Membrane-bound proteins and related nucleotide sequences -
 XX claim 12; Fig 184; 822pp; English.
 PS
 XX The invention provides membrane-bound PRO polypeptides and
 CC polynucleotides encoding them. The PRO sequences of the invention were
 CC identified based on extracellular domain homology screening. The PRO
 CC sequences have homology with proteins including LDL receptors, TIE
 CC ligands and various enzymes. The membrane-bound proteins and receptor
 CC molecules are useful as pharmaceutical and diagnostic agents. Receptor
 CC immunoadhesins, for instance, can be used as therapeutic agents to block
 CC receptor-ligand interactions. The membrane-bound proteins can also be
 CC employed for screening of potential peptide or small molecule inhibitors
 CC of the relevant receptor/ligand interaction. The PRO encoding sequences
 CC are useful as hybridization probes, in chromosome and gene mapping and in
 CC the generation of antisense RNA and DNA. PRO nucleic acid sequences
 CC will also be useful for the preparation of PRO polypeptides, especially
 CC by recombinant techniques.
 CC
 XX Sequence 124 AA;
 SO
 Query Match 43.98; Score 281.5; DB 21; Length 124;
 Best Local Similarity 48.8%; Pred. No. 6,7e-23;
 Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;
 QY 1 MDRVPCCLIFGLINPLSLPVTGRTQLVLEEDARALEBELMALIQTIRQM 60
 Db 1 MYKASCCLEFTGFLNPLSLPLDSDRISFOLSAPEHDALEPEERASLLIPEML 60
 QY 61 GTEAGESPGEAGSTETPTPGSMRK--AFAGONSNTVLSRLARTRKOHOGAAPECF 118
 Db 61 GAEGDILRKADSTNIFNPGNRKRFODESGODPILLSHLARIMKPKRR-ETPDGF 119
 QY 119 WKYCI 123
 Db 120 WKYCV 124
 Db
 RESULT 14
 AAB20118
 ID AAB20118 standard; Protein; 124 AA.
 XX
 AC AAB20118;
 XX
 DT 30-APR-2001 (first entry)
 XX
 DE Human immunostimulant PRO1068.
 XX
 KW PRO1068; UNO525; human; immune disease; autoimmune disease;
 KW immunosuppressive; antihypertensive; antidiabetic; neuroprotective;
 KW hepatotropic; virucide; dermatological; antipsoriatic;
 KW antisthmatic; antiallergic; immunostimulant.
 XX
 OS Homo sapiens.
 XX
 FT Key Location/Qualifiers
 FT Peptide 1..20
 FT Protein /label= Signal_peptide
 FT Modified-site 21..124
 FT /label= Mature_protein
 FT /note= "N-myristoylation site"
 FT Modified-site 92..98

FT /note= "N-myristoylation site"
 FT Modified-site 112..116
 FT /note= "cAMP- and cGMP-dependent protein kinase
 FT phosphorylation site"
 FT Region 118..124
 FT /note= "urotensin II signature"
 FT Region 64..67
 FT /note= "cell attachment sequence"
 XX
 PN W0200105972-A1.
 XX
 PD 25-JAN-2001.
 XX
 PF 15-MAR-2000; 2000WO-US06884.
 XX
 PR 20-JUL-1999; 99US-0144758.
 XX
 PA (GETH) GENENTECH INC.
 PI Ashkenazi AJ, Baker KP, Fong S, Goddard A, Godowski PJ, Gurney AL;
 PI Hillan KJ, Mark MR, Masters SA, Pitti RM, Tumas D, Watanabe CK;
 PI Wood WI;
 XX
 DR WPI: 2001-103149/11.
 DR N-PSDB: AAF30060.
 XX
 PT New PRO polypeptides, nucleic acids and (ant)agonists, useful for
 PT diagnosing and treating immune-related disorders, such as multiple
 PT sclerosis, rheumatoid arthritis and diabetes -
 PT
 XX
 PS Claim 20; Fig 22; 127pp; English.
 XX
 CC The present sequence is that of novel human immunomodulator PRO1068
 CC (UNO525), as deduced from cDNA (see AAF30060) isolated from a
 CC database screening. PRO1068 has a mol. wt. of 14 kDa and a pI of
 CC 8.14. The invention provides polynucleotides (see AAF30050-62)
 CC encoding novel human PRO proteins (see AAB20108-20) including
 CC PRO1068. Claimed compositions comprising these proteins or their
 CC agonists are useful for increasing infiltration of inflammatory
 CC cells into a tissue of a mammal, stimulating or enhancing an immune
 CC response, or increasing the proliferation of T-lymphocytes in a
 CC mammal in response to an antigen. Claimed compositions comprising
 CC a PRO polypeptide or its antagonist have the opposite effect. A
 CC claimed method for treating an immune related disorder, such as a T
 CC cell disorder, involves administering a PRO polypeptide, an agonist
 CC antibody or an antagonist antibody. The disorder is selected from
 CC systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
 CC juvenile chronic arthritis, spondyloarthritis, systemic sclerosis,
 CC idiopathic inflammatory myopathy, Sjogren's syndrome, systemic
 CC vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
 CC thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated
 CC renal disease, demyelinated diseases (such as multiple sclerosis),
 CC autoimmune chronic active hepatitis, primary biliary cirrhosis,
 CC granulomatous hepatitis, sclerosing cholangitis, inflammatory bowel
 CC disease (ulcerative colitis and Crohn's disease), gluten-sensitive
 CC enteropathy, Whipple's disease, (auto)immune-mediated skin diseases
 CC (such as bullous skin disease, erythema multiforme and psoriasis),
 CC allergic diseases (such as asthma, allergic rhinitis, atopic
 CC dermatitis, food hypersensitivity and urticaria), immunologic
 CC diseases of the lung and transplantation associated diseases (such
 CC as graft rejection and graft-versus-host disease) (all claimed).
 CC Claimed methods of diagnosing these disorders comprise detecting
 CC the level of expression of the PRO gene. Also claimed are a method
 CC of identifying a compound capable of inhibiting the expression or
 CC activity of the PRO polypeptide, vectors, host cells, antibodies,
 CC and a method of stimulating the proliferation of T lymphocytes
 CC using PRO1068.
 XX
 SO Sequence 124 AA;
 Query Match 43.98; Score 281.5; DB 22; Length 124;
 Best Local Similarity 48.8%; Pred. No. 6,7e-23;
 Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

```
QY 1 MDRVPCCLFICLNLPLSLPYDTGERTLOLVLEEDALRALLEERALLQTLRQTM 60
    | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1 MYKLASCCCLFTGFLNPLSLPLDSREISFQLSAPHEDRALRPEELERASLLQILPEML 60
    | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 61 GTFAGSPGEGAPSTETPTPRGSMRK--AFAGONSMTVLSRLIARTRKHOKHGAAPCEP 118
    | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 61 GARGDILRKADSTNIFNFRGNLRKFQDPFGODPNILLSHLARLWKPKYKR-ETPPDCF 119
    | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 119 WKYCI 123
    | | | |
DB 120 WKYCV 124

RESULT 15
AAB65230
ID AAB65230 standard; protein: 124 AA.
XX
AC AAB65230;
XX
DT 02-APR-2001 (first entry)
XX
DE Human PRO1068 (UNQ525) protein sequence SEQ ID NO:266.
XX
KW Human; secreted and transmembrane protein; PRO; cytosolic;
KM cell death; cancer; chromosomal mapping; gene mapping; tissue typing;
KW diagnostic assay.
XX
OS Homo sapiens.
XX
PN WO200073454-A1.
XX
PD 07-DEC-2000
XX
PF 30-MAR-2000; 2000WO-US08439.
XX
PR 02-JUN-1999; 99WO-US12252.
PR 23-JUN-1999; 99US-0141037.
PR 07-JUL-1999; 99US-0143048.
PR 20-JUL-1999; 99US-0144758.
PR 26-JUL-1999; 99US-0145698.
PR 28-JUL-1999; 99US-0146222.
PR 17-AUG-1999; 99US-0149396.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 08-OCT-1999; 99US-0158663.
PR 30-NOV-1999; 99WO-US28313.
PR 01-DEC-1999; 99WO-US28301.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 02-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06884.
PR 20-MAR-2000; 2000WO-US07377.
XX
XX
PA (GETH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,
PI Ferrara N, Fong S, Gerber H, Gertschen ME, Goddard A, Godowski PJ,
PI Grimaldi CJ, Gurney AL, Kijewski J, Napier MA, Pan J, Paoni NE,
PI Roy MA, Stewart JA, Tumas D, Watanabe CK, Williams PM, Wood WI,
PI Zhang Z;
XX
DR WPI: 2001-032160/04.
DR N-PSDB: AAF44193.
XX
PT PRO polynucleotides used to produce polypeptides used to target
```

```
PT bioactive molecules such as toxins, radiolabels or antibodies, to
PT specific cells, to cause targeted cell death -
XX
XX Claim 12; Fig 184; 935pp; English.
XX
CC The present invention describes human secreted and transmembrane PRO
CC proteins. The PRO proteins have cytosolic activity. The PRO proteins
CC can be used for targeted delivery of bioactive molecules, such as
CC toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide
CC sequences, and their fragments, can be used as hybridisation probes, in
CC chromosomal and gene mapping, and in the generation of anti-sense RNA
CC and DNA. They may also be used to produce transgenic animals which are
CC used to develop and screen therapeutically useful reagents. The PRO
CC nucleotide and protein sequence can be used for tissue typing and in
CC treating cancer. Anti-PRO antibodies can be used in diagnostic assays.
CC AAF44270 to AAF44470 represent PCR primers and hybridisation probes used
CC in the isolation of human PRO sequences. AAF44087 to AAF44269 and
CC AAB65154 to AAB65300 represent human PRO polynucleotide and protein
CC sequences given in the exemplification of the present invention.
XX
SQ Sequence 124 AA:
XX
Query Match 43.9%; Score 281.5; DB 22; Length 124;
Best Local Similarity 48.8%; Pred. No. 6; 7e-23;
Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;
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Search completed: March 10, 2003, 17:38:45
Job time : 30.9189 secs

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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:37:08 ; Search time 11.3027 Seconds
(without alignments)
320.191 Million cell updates/sec

Title: US-09-831-907A-33

Perfect score: 641
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	201.5	31.4	139	3	US-09-027-381-2
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3	195.5	30.5	103	3	US-09-027-381-4
4	195.5	30.5	103	4	US-09-477-071-4
5	76	11.9	605	2	US-08-472-666-1
6	76	11.9	605	1	PCT-US96-07615-1
7	75	11.7	966	1	US-08-571-758-2
8	75	11.7	966	1	US-08-909-984A-2
9	75	11.7	966	1	US-08-909-984B-2
10	73.5	11.5	1637	4	US-09-718-852-2
11	73.5	11.5	1637	4	US-09-718-852-2
12	73.5	11.5	1637	4	US-09-718-852-2
13	72	11.2	6095	4	US-09-144-085-2
14	69.5	10.8	264	4	US-08-713-556F-42
15	68.5	10.7	436	2	US-08-958-642-4
16	68.5	10.7	436	3	US-08-778-394-2
17	68.5	10.7	436	3	US-08-778-423A-4
18	66.5	10.4	291	5	PCT-US93-05000-6
19	66.5	10.4	292	2	US-08-464-517-23
20	66.5	10.4	292	2	US-08-246-361A-6
21	66.5	10.4	292	3	US-08-246-361A-23
22	66.5	10.4	292	3	US-08-463-772-23
23	66.5	10.4	292	5	PCT-US93-05000-23
24	66.5	10.4	1244	3	US-08-938-291A-5
25	66	10.3	271	4	US-09-414-436-1
26	66	10.3	546	3	US-08-935-855-20
27	65.5	10.2	297	2	US-09-006-535-4

28	65.5	10.2	1093	5	PCT-US93-03077-1	Sequence 1, Appl1
29	64.5	10.1	560	3	US-08-592-500-2	Sequence 2, Appl1
30	64.5	10.1	560	3	US-08-195-006-2	Sequence 2, Appl1
31	64.5	10.1	560	4	US-09-063-950-4	Sequence 4, Appl1
32	64.5	10.1	560	5	PCT-US94-07644A-2	Sequence 2, Appl1
33	64	10.0	763	2	US-08-742-753-4	Sequence 4, Appl1
34	64	10.0	1976	3	US-09-024-020B-9	Sequence 9, Appl1
35	64	10.0	1976	4	US-09-425-043-9	Sequence 9, Appl1
36	63	9.8	468	1	US-08-459-287-3	Sequence 9, Appl1
37	63	9.8	1978	3	US-09-024-020B-3	Sequence 3, Appl1
38	63	9.8	1978	4	US-09-425-043-3	Sequence 3, Appl1
39	63	9.8	1988	3	US-09-024-020B-4	Sequence 4, Appl1
40	63	9.8	1988	4	US-09-425-043-4	Sequence 4, Appl1
41	62.5	9.8	501	2	US-08-969-630-4	Sequence 4, Appl1
42	62.5	9.8	501	3	US-08-906-791-2	Sequence 4, Appl1
43	62.5	9.8	514	4	US-08-974-549A-605	Sequence 2, Appl1
44	62.5	9.8	830	4	US-09-562-737-39	Sequence 605, App
45	62	9.7	247	4	US-09-157-864-4	Sequence 39, Appl
						Sequence 4, Appl1

ALIGNMENTS

RESULT 1
US-09-027-381-2
; Sequence 2, Application US/09027381
; Patent No. 6075137
; GENERAL INFORMATION:
; APPLICANT: CULP, JEFFREY
; APPLICANT: MCNULTY, DEAN
; APPLICANT: ELLIS, CATHERINE
; TITLE OF INVENTION: HUMAN UROGENSIN II
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/027,381
; FILING DATE: 20-FEB-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/072,383
; FILING DATE: 09-JAN-1998
; APPLICATION NUMBER: GP-70366-1P
; FILING DATE: 04-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GP-70366
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 139 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-027-381-2
Query Match 31.4%; Score 201.5; DB 3; Length 139;
Best Local Similarity 43.2%; Pred. No. 2.3e-16;

Db 54 TINFPRGNLKRKFODFSGODPNILSLHLLARIMKPKRR-ETPPCFMKYCV 103

RESULT 5

US-08-472-666-1

Sequence 1, Application US/08472666

Patent No. 5821048

GENERAL INFORMATION:

APPLICANT: Howley, Peter M.

APPLICANT: Benson, John D.

APPLICANT: Yasugli, Toshiharu

APPLICANT: Sakai, Hiroyuki

TITLE OF INVENTION: METHOD AND KIT FOR DIAGNOSING

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Ann-Louise Kerner, Ph.D.

ADDRESSEE: Lappin & Kusmer

STREET: 200 State Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 01209

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/472,666

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: McDaniel, Patricia A.

REGISTRATION NUMBER: 33,194

REFERENCE/DOCKET NUMBER: HAZ-010

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-330-1300

TELEFAX: 617-330-1311

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 605 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Bovine papillomavirus E1

STRAIN: BPV-1

US-08-472-666-1

Query Match 11.9%; Score 76; DB 2; Length 605;

Best Local Similarity 28.9%; Pred. No. 1.4;

Matches 24; Conservative 16; Mismatches 33; Indels 10; Gaps 3;

Db 35 VLEEDALRALEELERMA---LLOTLRQTMGTGEGSPGEGSTETPTPR---GSMRKA 87

Db 59 VFGGNHLEVFQALEKKGEEQILNKKRVLGSSONSSGSEA---SETPVRRKSGAKRRL 115

QY 88 FAGONSNTVLSRLIARTRKQKHQ 110

Db 116 FAENEANRVLTPLQVQGEGBGRQ 138

RESULT 6

PCT-US96-07615-1

Sequence 1, Application PC/TUS9607615

GENERAL INFORMATION:

APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE

TITLE OF INVENTION: METHODS, KITS, AND COMPOSITIONS FOR DIAGNOSING

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lappin & Kusmer

STREET: 200 State Street

CITY: Boston

STATE: MA

COUNTRY: USA

ZIP: 01209

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US96/07615

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Kerner, Ann-Louise

REGISTRATION NUMBER: 33,523

REFERENCE/DOCKET NUMBER: HAZ-010PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-330-1300

TELEFAX: 617-330-1311

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 605 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Bovine papillomavirus E1

STRAIN: BPV-1

PCT-US96-07615-1

Query Match 11.9%; Score 76; DB 5; Length 605;

Best Local Similarity 28.9%; Pred. No. 1.4;

Matches 24; Conservative 16; Mismatches 33; Indels 10; Gaps 3;

Db 35 VLEEDALRALEELERMA---LLOTLRQTMGTGEGSPGEGSTETPTPR---GSMRKA 87

Db 59 VFGGNHLEVFQALEKKGEEQILNKKRVLGSSONSSGSEA---SETPVRRKSGAKRRL 115

QY 88 FAGONSNTVLSRLIARTRKQKHQ 110

Db 116 FAENEANRVLTPLQVQGEGBGRQ 138

RESULT 7

US-08-571-758-2

Sequence 2, Application US/08571758

Patent No. 5700675

GENERAL INFORMATION:

APPLICANT: Rubin, Gerry M.

APPLICANT: Therrien, Marc

APPLICANT: Chang, Henry C.

APPLICANT: Karim, Felix D.

APPLICANT: Wasserman, David A.

TITLE OF INVENTION: A No. 5700675e1 Protein Kinase Required for Ras

NUMBER OF SEQUENCES: 12

CORRESPONDENCE ADDRESS:

ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

STREET: 268 BUSH STREET, SUITE 3200

CITY: SAN FRANCISCO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94104

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/571,758

1 APPLICANT: Rubln, Gerry M.
2 APPLICANT: Therlien, Marc
3 APPLICANT: Chang, Henry C.
4 APPLICANT: Karim, Felix D.
5 APPLICANT: Massarman, David A.
6 TITLE OF INVENTION: A No. 5747275el Protein Kinase Required for Ras
7 TITLE OF INVENTION: Signal Transduction
8 NUMBER OF SEQUENCES: 12
9
10 CORRESPONDENCE ADDRESS:
11 ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
12 STREET: 268 BUSH STREET, SUITE 3200
13 CITY: SAN FRANCISCO
14 STATE: CALIFORNIA
15 COUNTRY: USA
16
17 ZIP: 94104
18
19 COMPUTER READABLE FORM:
20 MEDIUM TYPE: Floppy disk
21 COMPUTER: IBM PC compatible
22 OPERATING SYSTEM: PC-DOS/MS-DOS
23 SOFTWARE: PatentIn Release #1.0, Version #1.30
24 CURRENT APPLICATION DATA:
25 APPLICATION NUMBER: US/08/909,984A
26
27 FILING DATE:
28 CLASSIFICATION: 435
29 ATTORNEY/AGENT INFORMATION:
30 NAME: OSMAN, RICHARD A
31 REGISTRATION NUMBER: 36,627
32 REFERENCE/DOCKET NUMBER: B96-010
33 TELECOMMUNICATION INFORMATION:
34 TELEPHONE: (415) 343-4341
35 TELEFAX: (415) 343-4342
36
37 INFORMATION FOR SEQ ID NO: 2:
38 SEQUENCE CHARACTERISTICS:
39 LENGTH: 966 amino acids
40 TYPE: amino acid
41 STRANDEDNESS: not relevant
42 TOPOLOGY: not relevant

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: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/909,983
: FILING DATE: 12-JUN-1997
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/571,758
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: OSMAN, RICHARD A
: REGISTRATION NUMBER: 36,627
: REFERENCE/DOCKET NUMBER: B96-010
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (415) 343-4341
: TELEFAX: (415) 343-4342
: INFORMATION FOR SEQ ID NO. 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 966 amino acids
: TYPE: amino acid
: STRANDEDNESS: not relevant
: TOPOLOGY: not relevant
: MOLECULE TYPE: peptide
: US-08-909-983-2

Query Match 11.7%; Score 75; DB 1; Length 966;
Best Local Similarity 30.4%; Pred. No. 3.4;
Matches 35; Conservative 13; Mismatches 45; Indels 22; Gaps

QY 8 CLEFLGLNPLSLPVTDTGERTLQLPVLEEDALRALRELEERMA-LLQTLRQTM-GTEAG 65
Db 121 CLARLTTLTGQSURL-----SDEIRQL-LADSPSQREERELRLTRAMQNLRCMCSLESG 175

QY 66 ESPGEAGP-----STETPT--PRSGMKRAFGQNSNTVLSLLARITRKQHKQHG 112

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Db 176 TAAANNPDMHWDSDRPTIHRGSGVNGIGNNST-----ASPRTHHRRHG 223

RESULT 10

US-09-718-692-2

Sequence 2, Application US/09718692

Patent No. 6383796

GENERAL INFORMATION:

APPLICANT: Beraud, Christophe

APPLICANT: Freedman, Richard

TITLE OF INVENTION: No. 6383796e1 motor proteins and methods for

TITLE OF INVENTION: their use

FILE REFERENCE: 1052

CURRENT APPLICATION NUMBER: US/09/718,692

CURRENT FILING DATE: 2000-11-22

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 1637

TYPE: PRT

ORGANISM: Human

US-09-718-692-2

Query Match

Best Local Similarity 11.5%; Score 73.5; DB 4; Length 1637;

Matches 28; Conservative 27; Mismatches 46; Indels 11; Gaps 4;

Db 14 LNPPLSLPVTDTGERTLQLPVLEEDALRALEE-----LERNALQTLRQTMGTAGEESP 68

Db 455 LMSQANLLAKAGDNGEALIGALQNYIREIEELRTKLESEAMNESLRSLRSASASP 514

QY 69 GEAGSPETPTPRGSMKRAFAGONSNTVLSRL---LARTRKQ-KQHGAPF 116

Db 515 YSLGASPAAPAFGGS--PASSMEDASEVIRAKODLERLKKKEVRQRKSPF 564

RESULT 11

US-09-718-852-2

Sequence 2, Application US/09718852

Patent No. 6426193

GENERAL INFORMATION:

APPLICANT: Beraud, Christophe

APPLICANT: Freedman, Richard

TITLE OF INVENTION: No. 6426193e1 motor proteins and methods for

TITLE OF INVENTION: their use

FILE REFERENCE: 1052

CURRENT APPLICATION NUMBER: US/09/718,852

CURRENT FILING DATE: 2000-11-22

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 1637

TYPE: PRT

ORGANISM: Human

US-09-718-852-2

Query Match

Best Local Similarity 11.5%; Score 73.5; DB 4; Length 1637;

Matches 28; Conservative 27; Mismatches 46; Indels 11; Gaps 4;

QY 14 LNPPLSLPVTDTGERTLQLPVLEEDALRALEE-----LERNALQTLRQTMGTAGEESP 68

Db 455 LMSQANLLAKAGDNGEALIGALQNYIREIEELRTKLESEAMNESLRSLRSASASP 514

QY 69 GEAGSPETPTPRGSMKRAFAGONSNTVLSRL---LARTRKQ-KQHGAPF 116

Db 515 YSLGASPAAPAFGGS--PASSMEDASEVIRAKODLERLKKKEVRQRKSPF 564

RESULT 12

US-09-718-815-2

Sequence 2, Application US/09718815

Patent No. 6455293

GENERAL INFORMATION:

APPLICANT: Beraud, Christophe

APPLICANT: Freedman, Richard

TITLE OF INVENTION: No. 6455293e1 motor proteins and methods for

TITLE OF INVENTION: their use

FILE REFERENCE: 1052

CURRENT APPLICATION NUMBER: US/09/718,815

CURRENT FILING DATE: 2000-11-22

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 1637

TYPE: PRT

ORGANISM: Human

US-09-718-815-2

Query Match

Best Local Similarity 11.5%; Score 73.5; DB 4; Length 1637;

Matches 28; Conservative 27; Mismatches 46; Indels 11; Gaps 4;

QY 14 LNPPLSLPVTDTGERTLQLPVLEEDALRALEE-----LERNALQTLRQTMGTAGEESP 68

Db 455 LMSQANLLAKAGDNGEALIGALQNYIREIEELRTKLESEAMNESLRSLRSASASP 514

QY 69 GEAGSPETPTPRGSMKRAFAGONSNTVLSRL---LARTRKQ-KQHGAPF 116

Db 515 YSLGASPAAPAFGGS--PASSMEDASEVIRAKODLERLKKKEVRQRKSPF 564

RESULT 13

US-09-144-085-2

Sequence 2, Application US/09144085

Patent No. 6280999

GENERAL INFORMATION:

APPLICANT: Gustafsson, Claes

APPLICANT: Ashley, Gary

APPLICANT: Julien, Bryan

APPLICANT: Ziermann, Rainer

TITLE OF INVENTION: SORANGIUM POLYKETIDE SYNTHASES AND ENCODING DNA

TITLE OF INVENTION: THEREFOR

FILE REFERENCE: 30062-20020.20

CURRENT APPLICATION NUMBER: US/09/144,085

CURRENT FILING DATE: 1998-08-31

EARLIER APPLICATION NUMBER: 09/010,809

NUMBER OF SEQ ID NOS: 8

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 2

LENGTH: 6095

TYPE: PRT

ORGANISM: Sorangium cellulosum

US-09-144-085-2

Query Match

Best Local Similarity 11.2%; Score 72; DB 4; Length 6095;

Matches 39; Conservative 18; Mismatches 50; Indels 54; Gaps 7;

QY 10 LFIGLNPPLSLPVTDTGERTLQLPVLEEDALRALEELER-ALLQTLRQTMGTAGEESP 68

Db 1679 LFRALLNPRLSKASSATRRDASAL-----RETLALPEERLNLALVELVGEVAAVAGLQR 1734

QY 69 GEAGPS-----TET-----PTPRG-----SMKAFAG 90

Db 1735 GEVAADQVLKEGLDLSIMAVLRNRLTSRTETSLPATIVFDYTPRAINELLKQAFSG 1794

QY 91 QNSNTVLSRLARTRKQ-----KQHG--AAPCFMK 120

Db 1795 LQVEARARVRRRAGKDEPIAIVSMACRLPGVATPPDYWR 1835

RESULT 14

GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:38:48 ; Search time 9.64054 Seconds

(without alignments)
538.033 Million cell updates/sec

Title: US-09-831-907A-33

Sequence: 1 MDRPFCCLFTGLNPLLS.....TRKHGHGAPECFWKYCI 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 188354 seqs, 42170167 residues

Total number of hits satisfying chosen parameters: 188354

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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- 2: /cgn2_6/ptodata/1/pubpaa/PC1_NEW_PUB.pep:*
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- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/1/pubpaa/PC1US_PUBCOMB.pep:*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	293	45.7	125	10	US-09-854-105-2
2	281.5	43.9	124	9	US-09-992-598-266
3	281.5	43.9	124	9	US-09-989-293A-266
4	281.5	43.9	124	9	US-09-989-733A-266
5	281.5	43.9	124	9	US-09-990-444-266
6	281.5	43.9	124	9	US-09-989-730-266
7	281.5	43.9	124	9	US-09-990-436-266
8	281.5	43.9	124	9	US-09-991-181-266
9	281.5	43.9	124	9	US-09-993-687-266
10	281.5	43.9	124	9	US-09-989-734-266
11	281.5	43.9	124	9	US-09-997-653-266
12	281.5	43.9	124	9	US-09-993-667-266
13	281.5	43.9	124	9	US-09-990-438-266
14	281.5	43.9	124	9	US-09-990-562-266
15	281.5	43.9	124	9	US-09-997-428-266
16	281.5	43.9	124	9	US-09-997-666-266
17	281.5	43.9	124	9	US-09-990-711-266
18	281.5	43.9	124	9	US-09-989-726-266
19	281.5	43.9	124	10	US-09-989-722-266

20	281.5	43.9	124	10	US-09-989-723-266	Sequence 266, App
21	281.5	43.9	124	10	US-09-989-729-266	Sequence 266, App
22	281.5	43.9	124	10	US-09-989-727-266	Sequence 266, App
23	281.5	43.9	124	10	US-09-989-731-266	Sequence 266, App
24	281.5	43.9	124	10	US-09-989-732-266	Sequence 266, App
25	281.5	43.9	124	10	US-09-991-073-266	Sequence 266, App
26	281.5	43.9	124	10	US-09-990-442-266	Sequence 266, App
27	281.5	43.9	124	10	US-09-991-163-266	Sequence 266, App
28	281.5	43.9	124	10	US-09-993-604-266	Sequence 266, App
29	281.5	43.9	124	10	US-09-990-456-266	Sequence 266, App
30	281.5	43.9	124	10	US-09-989-721-266	Sequence 266, App
31	89	13.9	2249	9	US-09-866-557A-4	Sequence 4, Appl1
32	85.5	13.3	256	10	US-09-867-550-664	Sequence 684, App
33	73	11.4	596	10	US-09-797-039-8	Sequence 8, Appl1
34	71	11.1	208	9	US-09-738-626-6261	Sequence 6261, App
35	70.5	11.0	315	10	US-09-925-301-1053	Sequence 1053, App
36	70	10.9	1478	10	US-09-801-368-52	Sequence 52, Appl
37	66	10.3	491	9	US-10-114-893-69	Sequence 69, Appl
38	65.5	10.2	434	10	US-09-815-242-4987	Sequence 4987, App
39	65.5	10.2	448	10	US-09-815-242-10651	Sequence 10651, A
40	65.5	10.2	950	10	US-09-823-356-9	Sequence 9, Appl1
41	65.5	10.2	1033	9	US-09-820-843A-75	Sequence 75, Appl
42	65	10.1	178	9	US-09-764-868-792	Sequence 792, App
43	64.5	10.1	560	10	US-09-782-980-61	Sequence 61, Appl
44	64.5	10.1	568	9	US-10-173-519-2	Sequence 2, Appl1
45	64	10.0	238	9	US-09-738-626-6690	Sequence 6690, Ap

ALIGNMENTS

RESULT 1
US-09-854-105-2
Sequence 2, Application US/09854105
Patent No. US20020058323A1
GENERAL INFORMATION:
APPLICANT: Elshourbagy, Nabil
TITLE OF INVENTION: MONKEY UROTENSIN II
FILE REFERENCE: GP-70694
CURRENT APPLICATION NUMBER: US/09/854,105
CURRENT FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 60/203,470
PRIOR FILING DATE: 2000-05-11
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 125
TYPE: PRT
ORGANISM: MACACA FASCICULARIS
US-09-854-105-2

Query Match 45.7%; Score 293; DB 10; Length 125;
Best Local Similarity 50.8%; Pred. No. 1.9e-23;

Matches 64; Conservative 19; Mismatches 39; Indels 4; Gaps 3;

QY 1 MDRPFCCLFTGLNPLLSPTDTGERTQLPYLEDAIRALEERMAILOTL-ROT 59
DB 1 MYKLASCCLLFTGLNPLLSPLDSCGEVSLQSLAPHDADLTSELEERASLILOLPEML 60
QY 60 MGTAGEPFGAGSTETPTGRGSRK--AFAGONSNTVLSRLARTRKHKHGAPECF 117
DB 61 LGAEGRGSLRKADSTNIFNPRGNLRKFQDFSGDDPILLSHLARIRKPKRR-ETPDC 119
QY 118 FWKYCI 123
DB 120 FWKYCV 125
RESULT 2
US-09-992-598-266
Sequence 266, Application US/09992598
Patent No. US20020160384A1

GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kiljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Pan, James
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P27301C20
CURRENT APPLICATION NUMBER: US/09/992,598
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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;; PRIOR FILING DATE: 1998-07-09

Query Match 43.9%; Score 281.5; DB 9; Length 124;
Best Local Similarity 48.8%; Pred. No. 3e-22;

Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

QY 1 MDRVPPCCLLFTGLNPLSLPYVTGCGERTLQPLVEEDALRALLELERNALLOTLRQTM 60
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QY 61 GTEAGSSPEAGSTETPPRGSMRK-AFAGNSNTVLSRLIARTRKOHKOGAAPCCF 118
DB 61 GAERGDILRAKSSSTINIFRGNLRFRQDFSGDPNILLSLHARIMKPKKR-ETPPDCF 119
QY 119 WKYCI 123
DB 120 WKYCV 124

RESULT 3
US-09-989-293A-266
; Sequence 266, Application US/09989293A

Patent No. US20020177164A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
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APPLICANT: Kijavini, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C66
CURRENT APPLICATION NUMBER: US/09/989,293A
PRIOR FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
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PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 43.9% Score 281.5; DB 9; Length 124;
Best Local Similarity 48.8%; Pred. No. 3e-22;
Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

QY 1 MDRVPCCLFGLTLPVDTGERTLQPVLEEDALALELERMALQTLRQTM 60
DB 1 MYKLASCCLLFTGFLPLSLPLDLSREISFOLSAPEHARLTPEELASLQILPEML 60
QY 61 GTAESEPEAGPSTETTPRGSMRK--AFAGQNSNTVLSRLARTRKOHKGAPECF 118
DB 61 GAEKGDILRKADSTNIIFPRKGNLKRFDQFSQDPRILLSHLARIMWKYKRR-ETPDCE 119
QY 119 WKYCI 123
DB 120 WKYCV 124

RESULT 4
US-09-989-735-266

Sequence 266, Application US/09989735
Publication No. US20020193299A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
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APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730161
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CURRENT FILING DATE: 2001-11-19
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Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

QY 1 MORVPECCLLFTGLNPLSLPVTGERTLQLPVLEEDALALELEEMALLQTLQTM 60
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QY 61 GNEAGSGPEAGPSTETTPPGSMRK - AFAGONSNTVLSRLAPRKQKHGCAPECF 118
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DB 61 GAERGCI LKRAKSSSTINFRKGRKRFQDFSGDPVILSHLLARIMKPKRK-ETPDCE 119
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QY 119 WKYCI 123
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DB 120 WKYCV 124

RESULT 5

US-09-990-444-266
Sequence 266, Application US/09990444
Publication No. US20020193300A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC19
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: US/09/990,444
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088021
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PRIOR APPLICATION NUMBER: 60/088025
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PRIOR FILING DATE: 1998-06-04

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31	PRIOR APPLICATION NUMBER: 60/089440
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63	PRIOR APPLICATION NUMBER: 60/090252
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65	PRIOR APPLICATION NUMBER: 60/090254
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67	PRIOR APPLICATION NUMBER: 60/090349
68	PRIOR FILING DATE: 1998-06-23
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3	PRIOR FILING DATE: 1998-06-24
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6	PRIOR APPLICATION NUMBER: 60/09043
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55	PRIOR FILING DATE: 1998-07-07
56	PRIOR APPLICATION NUMBER: 60/09198
57	PRIOR FILING DATE: 1998-07-07
58	PRIOR APPLICATION NUMBER: 60/09218
59	PRIOR FILING DATE: 1998-07-09

Query Match	43.9%	Score 281.5;	DB 9;	Length 124;
Best Local Similarity	48.8%	Pred. No. 3e-22;		
Matches	61;	Conservative 19;	Mismatches 42;	Indels 3.

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QY      1  MDRVPCFCLLEITGLNPLNPLSLPVMTDGTERTQLQLPVLEBEDALRALEIEERALLQTLPTQM  60
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Db      1  MYKLASCLLETFGLNPLNPLSLPLDLSREISFQLSAPHEDRALPFEELERASLLDILPEML  60
QY      61  GTEAGESEGEAGPSTETPTTPRGSMRK -- AFGQNSNTVLSRLARTRKQHKOHCADECF  118
        | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      61  GAERGDILRKADSSNTINFNPRGNLRKQDFSGQOPNLLSHLLARIMKPKRR-ETPDCF  119
QY      119  WKYCL 123
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Db      120  WKYCV 124

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RESULT 6
US-09-989-730-266
Sequence 266, Application US/09989730
Publication NO. US20020197674A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Collin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC69
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
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Query Match	43.9%	Score 281.5;	DB 9;	Length 124;
Best Local Similarity	48.8%	Pred. No. 3e-22;		
Matches	61;	Conservative 19;	Mismatches 42;	Indels 3;
				Gaps 2

[illegible]

Tue Mar 11 10:10:36 2003

RESULT 8
US-09-991-181-266
Sequence 266, Application US/09991181
Publication No. US20020197615A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guiney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P273021C53
CURRENT FILING DATE: US/09/991,181
PRIOR APPLICATION NUMBER: 2001-11-16
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087609
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PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
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PRIOR APPLICATION NUMBER: 60/090349
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PRIOR FILING DATE: 1998-06-23
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PRIOR FILING DATE: 1998-06-24
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 43.9% Score 281.5; DB 9; Length 124;
Best Local Similarity 48.8% Pred. No. 3e-22;
Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

QY 1 MDRVPCCLLFTGLNPLSLPYDTGERTLOLPVLEEDALRALLEERNALLQTLRQTM 60
1 MYKLASCCLLFTGFLNPLSLPLDSREISFQLSAPHEDARLPBELERASTLQILPEML 60

QY 61 GVEAGESPEBAGSTETTPRGSMRK--AFAGONSNTVLSRLLARTRKHQKHGAPECF 118
61 GAERGDI LRKADSTNIFNRCGLRRKRFODFGDPNILLSHLLARLIMKPKYKR-ETPPDCF 119

QY 119 WKYCT 123
11111

Db 120 WKYCV 124

RESULT 9
US-09-993-687-266
Sequence 266, Application US/09993687
Publication No. US20020198149A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gottfredsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kiljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC11
CURRENT APPLICATION NUMBER: US/09/993,687
PRIOR FILING DATE: 2002-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
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PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088029
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PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
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PRIOR FILING DATE: 1998-06-22
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 43.9% Score 281.5; DB 9; Length 124;
Best Local Similarity 48.8% Pred. No. 3e-72;
Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

QY 1 MDRVPCCLFICGLNPLSLPVDTGERTQOLVLEBDALRALEBEERNAALLOTLRQTM 60
Db 1 MYKLASCCLLFTGLNPLSLPLDSRISFOLSAPEHEDATLPEELERASILQILPEML 60
QY 61 GTEAGESPGEAGSTETPTPGSMRK--AFAGONSNTVLSRLARTRKOHQHOAAPECF 118
Db 61 GAERGDLIRKADSSNTLFPNPGNLKRFQDFSGODPNILSLHLARLWKPKKR-ETPDCE 119
QY 119 WKYCI 123

Db 120 WKYCV 124

RESULT 10
US-09-989-734-266
Sequence 266, Application US/09989734
Publication No. US20030003531A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC64
CURRENT APPLICATION NUMBER: US/09/989,734
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
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PRIOR APPLICATION NUMBER: 60/089908
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PRIOR APPLICATION NUMBER: 60/089947
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PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
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PRIOR FILING DATE: 1998-06-22

;; PRIOR APPLICATION NUMBER: 60/090254
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;; PRIOR APPLICATION NUMBER: 60/090429
;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090431
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;; PRIOR FILING DATE: 1998-06-24
;; PRIOR APPLICATION NUMBER: 60/090444
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;; PRIOR APPLICATION NUMBER: 60/090445
;; PRIOR FILING DATE: 1998-06-24
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;; PRIOR APPLICATION NUMBER: 60/091360
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;; PRIOR APPLICATION NUMBER: 60/091633
;; PRIOR FILING DATE: 1998-07-02
;; PRIOR APPLICATION NUMBER: 60/091978
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/091982
;; PRIOR FILING DATE: 1998-07-07
;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

Query Match

Best Local Similarity 43.8%; Score 281.5; DB 9; Length 124;

Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

OY 1 MDRVPCCLFGLNLLSPVDTGERTLQFLVEDALRALALEERNAALQTLRQTM 60
Db 1 MYKLASCLLFTGLNLLSLPLDSREISFQSLAPHEADALFPEELERASLLQILEML 60
OY 61 GTEAGESEPGAGPSTERTPTPGSRMK--AFAGONSNTVLSLARTKQKHGCADECF 118
Db 61 GAEGNDILRKADSTNIFNPRGNLRKFQDFSGODPNILLSHLARIMKPYKR-ETPDCF 119

OY 119 WKYCI 123
Db 120 WKYCV 124

RESULT 11

US-09-997-653-266

; Sequence 266, Application US/09997653

; Publication No. US20030008297A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Bolstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gertlisen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tunas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2730PIC38

; CURRENT APPLICATION NUMBER: US/09/997,653

; PRIOR FILING DATE: 2001-11-15

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/065186

; PRIOR FILING DATE: 1997-11-12

; PRIOR APPLICATION NUMBER: 60/065311

; PRIOR FILING DATE: 1997-11-13

; PRIOR APPLICATION NUMBER: 60/066770

; PRIOR FILING DATE: 1997-11-24

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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 43.9%; Score 281.5; DB 9; Length 124;
Best Local Similarity 48.8%; Pred. No. 36-22;
Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

OY 1 MDVFPCCLLFTGLNPLSLPYTDTGERTQLPVLDEALRALFELEKNALLQTLRQTM 60
I : : ||||| : ||||| : : : : ||||| : : : :
DB 1 MYKLASCCLFTGLNPLSLPYTDTGERTQLPVLDEALRALFELEKNALLQTLRQTM 60
I : : ||||| : ||||| : : : : ||||| : : : :
OY 61 GTFAGSPGAGSTETPPRGSMRK--AFAGONSNTVUSRLIARTKQKHQGAPECF 118
I : : : ||||| : ||||| : : : : ||||| : : : :
DB 61 GABRGDILKRAKDSNTNIPNRGNLRKRFQDFSGQDPILLSLHLARIMKPKKR-ETPPDCF 119

QY 119 WKYC 123
Db 120 WKYC 124

RESULT 12
US-09-993-667-266
Sequence 266, Application US/09993667
Publication No. US20030022187A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlt, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
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APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C4
CURRENT APPLICATION NUMBER: US/09/993,667
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 43.9%; Score 281.5; DB 9; Length 124;

Best Local Similarity 48.8%; Pred. No. 3e-22; Mismatches 42; Indels 3; Gaps 2;

Matches 61; Conservative 19; Mismatches 42; Indels 3; Gaps 2;

QY 1 MDRVPECCLLFTGLNPLSLPVTGERTQLPYLEEDALRALAELEEMALLQTLRQM 60
DB 1 MKKLASCCLLFTGLNPLSLPVTGERTQLPYLEEDALRALAELEEMALLQTLRQM 60
QY 61 GTVAGSPCEAGSTETPTPRGSMK--AFAGONSNTVTSRLLRKQKHQGAPECF 118

Db 61 GNERDILRKADSSNTINPRGNLAKFQDFSGQDPNILLSHLARIMRPYKR-ETPDCF 119
QY 119 WKYCI 123
Db 120 WKYCV 124

RESULT 13
US-09-990-438-266
Sequence 266, Application US/09990438
Publication No. US2003002754A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
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APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC3
CURRENT APPLICATION NUMBER: US/09/990,438
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 43.9%; Score 281.5; DB 9; Length 124;

Best Local Similarity 48.8%; Pred. No. 3e-22; Mismatches 42; Indels 3; Gaps 2;

DB 1 MDRVPCCLLFTGLNPLSLPYVTGERTLOLPVEEDALRALEETERRALLQOTM 60
1 MYKLASCCLFTGLNPLSLPLDSREISFOLSAFHEDARLPBELEERSLQIILPEML 60
QY 61 GTAGESPGEAGSPSTETPTPGSNRK--AFAGONSNTVLSRLLRTRKQHKHGAAPECF 118

Db 61 GAEGLDLRKADSTNIFNPGNRKQDPSGQDPNILLSHLARIKPYKKR-ETPDCF 119
QY 119 WKYCI 123
Db 120 WKYCV 124

RESULT 14
US-09-990-562-266
; Sequence 266, Application US/09990562
; Publication No. US20030027985A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Iyar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C18
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025

; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
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; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
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; PRIOR APPLICATION NUMBER: 60/088217
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; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088742
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
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; PRIOR APPLICATION NUMBER: 60/088876
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; PRIOR APPLICATION NUMBER: 60/089601
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089607
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089908
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19

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0Y      61  GTGEGSGGCGPSTETPTPGSGMRK--APAGQSNNTVLSRLLATRTROKHOHAPECF 118
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Db      61  GAEGGDLIRKADSSNTINFNRGNMLRRFQFSGQDDPILLSHLRLIMKPYKRR-ETPDCF 119
      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
0Y      119  WKYCI 123
      | | | | |
Db      120  WKYCV 124

RESULT 15
US-09-997-428-266
: Sequence 266, Application US/09997428
: Publication No. US20030027162A1
: GENERAL INFORMATION:
: APPLICANT: Ashkenazi, Avi J.
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Fong, Sherman
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, V. Christopher
: APPLICANT: Gurney, Austin L.
: APPLICANT: Kijavini, Ivar J.
: APPLICANT: Napier, Mary A.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: P2730P1C44
CURRENT APPLICATION NUMBER: US/09/997,428
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR FILING DATE: 1998-06-04

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PRIOR APPLICATION NUMBER: 60/088025
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 43.98; Score 281.5; DB 9; Length 124;
Best Local Similarity 48.88; Pred. No. 3e-22; Indels 3; Gaps 2;
Matches 61; Conservative 19; Mismatches 42;

OY 1 MDKVPCCCLFICLLPLSLPTDGERPLQPLVEEDALRALLETERNALLOTLRQTM 60
DB 1 MYKLASCCLFTGFLNPLSLPLDLSREISFQLSAPHEADRLTPEELERASLLQIPEML 60

Tue Mar 11 10:10:36 2003

us-09-831-907a-33.rapb

Page 23

OY 61 GTEGSESGEGSPSTETPTTPGMSRK--AFAGCONSNVLSRLARTKROAKHOHADECF 118
| | | | | | | | | | | | | | | | | | | | | |
Db 61 GAERQDIIRKSDSNTINFPGRNLKRKFODESGODPNILLSHLARIMKPYKKR-ETPDCE 119

OY 119 WKYCL 123
| | | | | | | | | | | | | | | | | | | | | |
Db 120 WKYCV 124

Search completed: March 10, 2003, 17:48:54
Job time : 10.6405 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 10, 2003, 17:36:23 ; Search time 13.2973 Seconds

(without alignments)
889.243 Million cell updates/sec

Title: US-09-831-907A-33

Perfect score: 641

Sequence: 1 MDRVPECCLLFTGLNPLLS.....TRKHKGGADECFWXYCI 123

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters: 283224

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 100%

Listing first 45 summaries

Database :
1: PIR:***
2: PIR:***
3: PIR:***
4: PIR:***

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	115	17.9	125	I50499	urotensin II-gamma
2	101.5	15.8	125	I50498	urotensin II-alpha
3	79	12.3	523	S42727	translation initia
4	76.5	11.9	391	T17239	hypothetical prote
5	76	11.9	605	M1WLEB	El protein - bovin
6	75.5	11.8	111	H72526	hypothetical prote
7	75.5	11.8	663	A91048	probable 2-compone
8	75.5	11.8	663	B65025	hypothetical prote
9	73.5	11.5	679	E85892	hypothetical prote
10	73.5	11.5	1076	A35622	nuclear pore prote
11	73.5	11.5	7463	T36248	cell wall-associat
12	73	11.4	392	F96937	hypothetical prote
13	73	11.4	429	T17215	hypothetical prote
14	73	11.4	620	M1WLEB	El protein - bovin
15	73	11.4	968	T45746	hypothetical prote
16	72.5	11.3	404	1 OQBEL3	BMRF1 protein - hu
17	72.5	11.3	1075	S76433	cation efflux syst
18	72	11.2	83	S10706	urotensin II precu
19	72	11.2	308	C83340	2-amino benzate-Co
20	72	11.2	603	S22402	uroprophyrinogen I
21	71.5	11.2	243	S42533	probable sulfate a
22	71.5	11.2	393	T19977	hypothetical prote
23	71.5	11.2	428	F81905	transcription fact
24	71.5	11.2	428	A81111	transcription fact
25	71	11.1	760	S07896	NADH2 dehydrogenas
26	71	11.1	849	H71838	hypothetical prote
27	71	11.1	1299	T00261	hypothetical prote
28	70.5	11.0	379	T04030	glucan 1,4-alpha-g
29	70.5	11.0	748	T49633	

30	70.5	11.0	1882	2	T00069	hypothetical prote
31	70	10.9	501	2	T48336	hypothetical prote
32	70	10.9	1478	2	S20117	protein kinase BCK
33	69.5	10.8	235	2	AG0724	sepium site determ
34	69.5	10.8	553	2	C71257	phenylalanine-tRNA
35	69.5	10.8	946	2	JC7810	inositol 1,4,5-tri
36	69	10.8	530	2	G70904	hypothetical prote
37	69	10.8	766	1	A47001	transcription fact
38	69	10.8	772	2	C75579	catalase - Deinoco
39	68.5	10.7	98	2	F83432	regulator in type
40	68.5	10.7	269	2	S36166	paired box transcr
41	68.5	10.7	309	2	AC3508	hypothetical prote
42	68.5	10.7	404	2	A82121	2-oxoglutarate deh
43	68.5	10.7	422	1	A56674	paired box transcr
44	68.5	10.7	436	1	S42234	paired box transcr
45	68.5	10.7	449	2	S07714	T64 protein precur

ALIGNMENTS

RESULT 1

I50499 urotensin II-gamma precursor - common carp

C:Species: Cyprinus carpio (common carp)
C:Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 16-Jul-1999

C:Accession: I50499
R:Onsako, S.; Ishida, I.; Ichikawa, T.; Deguchi, T.

J. Neurosci. 6, 2730-2735, 1986
A:Title: Cloning and sequence analysis of cDNAs encoding precursors of urotensin II-a

A:Reference number: I50498; MUID:86307061; PMID:2427672
A:Accession: I50499

A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA

A:Residues: 1-125 <OHS>
A:Cross-references: GB:M14084; NID:9213068; PIDN:AAA9216.1; PID:9213069

C:Superfamily: urotensin II

Query Match

Best Local Similarity 17.9%; Score 115; DB 2; Length 125;
Matches 36; Conservative 22; Mismatches 47; Indels 24; Gaps 4;

QY	7	CCLLFTGLNPLLSLPVTDGERTQLPYLEDA-----LRALERLEMAQLQTL	56
DB	9	CSVLLLS-CSHLAHVPTTADMTYSGPDSVEAGVNPDDPSVDLNEHLQRAAV----	63
QY	57	RGTMGEAGSPGEAPSTETP--TPRGSRKAFACQNSFTVLSRLIARTTRKHKGAA	114
DB	64	-----AGYSPLESDENIKVPGQIKRALRELLERPYRLIPRGLMGSRQFRKRGCG	116
QY	115	PECFWKYCI 123	
DB	117	ADCFWKYCI 125	

RESULT 2

I50498 urotensin II-alpha precursor - common carp

C:Species: Cyprinus carpio (common carp)
C:Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 16-Jul-1999

R:Onsako, S.; Ishida, I.; Ichikawa, T.; Deguchi, T.
J. Neurosci. 6, 2730-2735, 1986

A:Title: Cloning and sequence analysis of cDNAs encoding precursors of urotensin II-a

A:Reference number: I50498; MUID:86307061; PMID:2427672
A:Accession: I50498

A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA

A:Residues: 1-125 <OHS>
A:Cross-references: GB:M14084; NID:9213066; PIDN:AAA9215.1; PID:9213067

C:Superfamily: urotensin II

Query Match

15.8%; Score 101.5; DB 2; Length 125;

A:Reference number: A99629; MUID:21156231; PMID:11258796
A:Accession: A91048
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-663 <HAV>
A:Cross-references: GB:BA000007; PIDN:BA836776.1; PID:q1362823; GSPDB:GN00154
A:Experimental source: strain O157:H7, substrain RIND 0509952
C:Genetics:
A:Gene: ECS3353

Query Match 11.8%; Score 75.5; DB 2; Length 663;
Best Local Similarity 32.1%; Pred. No. 19;
Matches 26; Conservative 9; Mismatches 17; Indels 29; Gaps 4;

QY 33 LPVLEED-ALRAL-----EELERMALLOTLRQTMGTAGESEPGAGPSTETPT 79
||| ||| ||| : ||| : ||| |||
Db 588 LPTLNEDSALRSSMAQLHPTTPENDEERQRIYQVLRFTNGIYAG----- 633

QY 80 PRGSMKRAFAGONSNTVLSRL 100
||| : ||| |||
Db 634 PRGAATR--LGMRKRTLLSRM 652

RESULT 8

hypothetical protein b2491 - Escherichia coli (strain K-12)

C:Species: Escherichia coli

C:Date: 12-Sep-1997 #sequence_revision 17-Sep-1997 #text_change 01-Mar-2002

A:Accession: B65025

R:Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.; CC
A.: Rose, D.J.; Mau, B.; Shao, Y.

Science 277, 1453-1462, 1997

A:Title: The complete genome sequence of Escherichia coli K-12.

A:Reference number: A64720; MUID:97426617; PMID:9278503

A:Accession: B65025

A:Status: preliminary; nucleic acid sequence not shown; translation not shown

A:Molecule type: DNA

A:Residues: 1-663 <BLAT>

A:Cross-references: GB:AE000335; GB:U00096; NID:q1788821; PIDN:AACT5544.1; PID:q1788836;
A:Experimental source: strain K-12, substrain MO1655

C:Superfamily: RNA polymerase sigma factor interaction domain homology

F:340-562/Domain: RNA polymerase sigma factor interaction domain homology <SFR>

Query Match 11.8%; Score 75.5; DB 2; Length 663;
Best Local Similarity 32.1%; Pred. No. 19;
Matches 26; Conservative 9; Mismatches 17; Indels 29; Gaps 4;

QY 33 LPVLEED-ALRAL-----EELERMALLOTLRQTMGTAGESEPGAGPSTETPT 79
||| ||| ||| : ||| : ||| |||
Db 588 LPTLNEDSALRSSMAQLHPTTPENDEERQRIYQVLRFTNGIYAG----- 633

QY 80 PRGSMKRAFAGONSNTVLSRL 100
||| : ||| |||
Db 634 PRGAATR--LGMRKRTLLSRM 652

QY 80 PRGSMKRAFAGONSNTVLSRL 100
||| : ||| |||
Db 634 PRGAATR--LGMRKRTLLSRM 652

RESULT 9

E85892

hypothetical protein hyfR [imported] - Escherichia coli (strain O157:H7, substrain EDL93

C:Species: Escherichia coli

C:Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 14-Sep-2001

C:Accession: E85892

R:Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
Illier, L.J.; Grothbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, K.; Apodaca,
Nature 409, 529-533, 2001

A:Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.

A:Reference number: A85480; MUID:21074935; PMID:11206551

A:Accession: E85892

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-679 <STO>

A:Cross-references: GB:AE005174; NID:q1251876; PIDN:AA657601.1; GSPDB:GN00145; UMG:237

A:Experimental source: strain O157:H7, substrain EDL933

C:Genetics:
A:Gene: hyfR

Query Match 11.5%; Score 73.5; DB 2; Length 679;
Best Local Similarity 32.5%; Pred. No. 31;
Matches 26; Conservative 8; Mismatches 17; Indels 29; Gaps 4;

QY 33 LPVLEED-ALRAL-----EELERMALLOTLRQTMGTAGESEPGAGPSTETPT 79
||| ||| ||| : ||| : ||| |||
Db 595 LPTLNEDSALRSSMAQLHPTTPENDEERQRIYQVLRFTNGIYAG----- 640

QY 80 PRGSMKRAFAGONSNTVLSRL 99
||| : ||| |||
Db 641 PRGAATR--LGMRKRTLLSRM 658

RESULT 10

A35622

nuclear pore protein NUP1 - yeast (Saccharomyces cerevisiae)

N:Alternate names: nucleoporin; protein O3182; protein YOR098C; protein YOR3182C

C:Species: Saccharomyces cerevisiae

C:Date: 22-Jan-1993 #sequence_revision 08-Mar-1996 #text_change 21-Jul-2000

C:Accession: A35622; S61658; S66983

R:Davis, L.I.; Fink, G.R.
Cell 61, 965-978, 1990

A:Title: The NUP1 gene encodes an essential component of the yeast nuclear pore comp

A:Reference number: A35622; MUID:90275616; PMID:2190694

A:Accession: A35622

A:Molecule type: DNA

A:Residues: 1-1076 <NAV>

A:Cross-references: EMBL:M33632; NID:q172055; PIDN:AAA34822.1; PID:q172056

A:Experimental source: strain S288C

R:Benes, V.; Andrade, M.A.; Reichmann, S.; Teodoru, C.; Banrevi, A.; Sander, C.; Valen
submitted to the EMBL Data Library, December 1995

A:Description: Nucleotide sequence and analysis of a 130 kb fragment of yeast chromos

A:Reference number: S61643

A:Accession: S61658

A:Molecule type: DNA

A:Residues: 1-1076 <BN>

A:Cross-references: EMBL:X94335; NID:q1262139; PIDN:CAA64020.1; PID:q1164945

R:Voss, H.; Benes, V.; Reichmann, S.; Teodoru, C.; Schwager, C.; Paces, V.; Ansoorge, W
submitted to the Protein Sequence Database, July 1996

A:Reference number: S66965

A:Accession: S66983

A:Molecule type: DNA

A:Residues: 1-1076 <VOS>

A:Cross-references: EMBL:Z75006; NID:q1420274; PIDN:CAA99295.1; PID:q1420275; GSPDB:G

A:Experimental source: strain S288C

C:Genetics:

A:Gene: SCD:NUP1; MIPS:YOR098C

A:Cross-references: SCD:S0005624; MIPS:YOR098C

A:Map position: 15R

C:Superfamily: nuclear pore protein NUP1

Query Match 11.5%; Score 73.5; DB 1; Length 1076;
Best Local Similarity 23.7%; Pred. No. 53;
Matches 28; Conservative 18; Mismatches 49; Indels 23; Gaps 4;

QY 24 TDGERTLOLPVLEEDALRALEELERMALLOTLRQTMGT-----AGESPGAG- 72
||| ||| ||| : ||| : ||| |||
Db 92 TENTERPPLPLPIQRLRLREKORRNARELGLIOSTEPSITSSVILGSSQSKSDEG 151

QY 73 -----PSTETPPRGSKRAFAGONS-----TVLSRLAFTKQKHQCAAEPCW 119
||| ||| ||| : ||| : ||| |||
Db 152 SYLTSTSPSPINKSGCTROLACKSGEDTNGVLPILKSLNRSNRK-RFHSQSGCTW 208

RESULT 11

T36248

CDA peptide synthetase I - Streptomyces coelicolor

C:Species: Streptomyces coelicolor

C:Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 01-Dec-2000

C:Accession: T36248

R:Saunders, D.C.; Harris, D.; Bentley, S.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
submitted to the EMBL Data Library, March 1999
A:Reference number: Z21602
A:Accession: T36248
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-7463 <SAU>
A:Cross-references: EMBL:AL035640; PIDN:CAB38518.1; GSPDB:GN00070; SCOEDB:SC63.03c
A:Experimental source: strain A3(2)
C:Genetics:
A:Gene: cdePST; SCOEDB:SC63.03c
C:Superfamily: acetate-CoA ligase homology; acyl carrier protein homology
C:Keywords: carrier protein; phosphopantetheine; phosphoprotein
F:516-1074/Domain: acetate-CoA ligase homology #status atypical <ACLI>
F:1090-1158/Domain: acyl carrier protein homology <ACP1>
F:1175-2184/Domain: acetate-CoA ligase homology <ACLI2>
F:2200-2266/Domain: acyl carrier protein homology <ACP2>
F:2204-3248/Domain: acetate-CoA ligase homology <ACLI3>
F:3265-3333/Domain: acyl carrier protein homology <ACP3>
F:4323-4746/Domain: acetate-CoA ligase homology <ACLI4>
F:4762-4830/Domain: acyl carrier protein homology <ACP4>
F:5363-5786/Domain: acetate-CoA ligase homology <ACLI5>
F:5802-5870/Domain: acyl carrier protein homology <ACP5>
F:6401-6868/Domain: acetate-CoA ligase homology <ACLI6>
F:6884-6951/Domain: acyl carrier protein homology <ACP6>
F:1122,2232,3297,4794,5834,6916/Binding site: phosphopantetheine (Ser) (covalent) #status

Query Match 11.5% Score 73.5; DB 2; Length 7463;
Best Local Similarity 25.7%; Pred. No. 4.7e+02;
Matches 28; Conservative 14; Mismatches 58; Indels 9; Gaps 2;

OY 11 FIGLNPILSPVDTGRTQLPVEEDALRALEERMLLQTLRQTMTEAGESPGE 70
DB 2710 FLRLDALVADPSRRIQGVDPGRERERVLTEWMDTPRRPQGFADHVAHRAHERGH 2769

OY 71 AGPSTE-TTPRGSRMKAPAGONSNTVLSRLIARTKQKHGAAPCE 118
DB 2770 LAVETAGAAAPGAGALTGELNERARLARALLAR-----GAGPERF 2810

RESULT 12
cell wall-associated hydrolase [imported] - Clostridium acetobutylicum
C:Species: Clostridium acetobutylicum
C:Date: 14-Sep-2001 #sequence_revision 14-Sep-2001 #text_change 14-Sep-2001
C:Accession: F96937
R:Noilling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; Lee, J.
J. Bacteriol. 183, 4823-4838, 2001
A:Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium Clostridium acetobutylicum
A:Reference number: A96900; MUID:21359325; PMID:21359325
A:Accession: F96937
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-392 <KUR>
A:Cross-references: GB:AE001437; PIDN:AAK78289.1; PID:q15023151; GSPDB:GN00168
A:Experimental source: Clostridium acetobutylicum ATCC824
C:Genetics:
A:Gene: CAC0308

Query Match 11.4% Score 73; DB 2; Length 392;
Best Local Similarity 28.6%; Pred. No. 19;
Matches 16; Conservative 11; Mismatches 29; Indels 0; Gaps 0;

OY 41 LKALBELMALQLQLRQTMTEAGESPGEPTPTPRGSMKAPAGONSNTV 96
DB 230 VRAEKDAEKAAQARLVAAANTPAASAPAKAVAKAQAAPLRGVSHSSFGSGNDVY 285

RESULT 13
T17215
hypothetical protein DKF2p434H2235.1 - human
C:Species: Homo sapiens (man)

C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C:Accession: T17215
R:Poustka, A.; Klein, M.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S.
submitted to the Protein Sequence Database, September 1999
A:Reference number: Z18723
A:Accession: T17215
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-429 <POU>
A:Cross-references: EMBL:AL117404
A:Experimental source: adult testis; clone DKF2p434H2235
C:Genetics:
A:Note: DKF2p434H2235.1

Query Match 11.4% Score 73; DB 2; Length 429;
Best Local Similarity 24.5%; Pred. No. 21;
Matches 27; Conservative 12; Mismatches 41; Indels 30; Gaps 3;

OY 28 ERTQLPVE-----EDLRALLEE-----RMALQTLRQTMTEAGE 66
DB 260 ERQPDVMDLQELISLKLKGEEDICEAEKVHYTEKKLRQREVSODLMAQSTQMPA 319

OY 67 SP-----GEAGPSTETPTPRGSMKAPAGONSNTVLSRLIARTKQ 107
DB 320 SPLPSFDEVDSDGDPATSVAPAKKFAVRVTEGEEDTESVPGSTRPQ 369

RESULT 14
W1MLB2
E1 protein - bovine papillomavirus type 2
C:Species: bovine papillomavirus type 2
C:Date: 31-Mar-1989 #sequence_revision 31-Mar-1989 #text_change 12-Jun-1998
C:Accession: C31169
R:Groff, D.E.; Mitra, R.; Lancaster, W.D.
submitted to GenBank, May 1988
A:Reference number: A94519
A:Accession: C31169
A:Molecule type: DNA
A:Residues: 1-620 <GRO>
A:Cross-references: GB:M20219; GB:M19551; NID:g332996
C:Superfamily: papillomavirus E1 protein
C:Keywords: early protein; glycoprotein
F:72,109,173/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 11.4% Score 73; DB 1; Length 620;
Best Local Similarity 31.5%; Pred. No. 32;
Matches 23; Conservative 13; Mismatches 27; Indels 10; Gaps 3;

OY 35 VLEEDALRALEELERMA---LLQTLRQTMTEAGESPGEAGPSTETPTPR---GSMKA 87
DB 75 VFGGNHLEVFQALEKKAGEQLNLKRVKLGSSSENSGSEA---SETPAKRQKAGAKRRL 131

OY 88 FAGONSNTVLSRL 100
DB 132 FSENEANRVLTPL 144

RESULT 15
T45746
hypothetical protein F24M12.190 - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 04-Feb-2000
C:Accession: T45746
R:Vitale, D.; Iignori, R.; Flores, M.; Argiriu, A.; De Simone, V.; Mewes, H.W.; Lemc
submitted to the Protein Sequence Database, December 1999
A:Reference number: Z23012
A:Accession: T45746
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-968 <VIT>
A:Cross-references: EMBL:AL132980
A:Experimental source: cultivar Columbia; BAC clone F24M12
C:Genetics:

A:Map position: 3
A:Introns: 69/1; 99/1; 132/3; 170/3; 198/1; 220/3; 242/3; 284/2; 396/3; 441/3; 514/1; 81
A:Note: F24M12.190

Query Match 11.4%; Score 73; DB 2; Length 968;
Best Local Similarity 27.8%; Pred. No. 52;
Matches 27; Conservative 20; Mismatches 30; Indels 20; Gaps 4;

QY 14 LNPPLSLPVTDT-----GERTLOLPVLEEDALRALBEELER-MALLQTLROTMGTAGEESP 68
Db 371 LSSFRQALVYSDTALKEKDLQIEKLNKEVFQLAQELERAYSKIEDLQOIT---GEAP 426
QY 69 GEAGPSTETPTPRGSMKAFAGONSNTVLSRLLR 105
Db 427 QQELISTDSEQ-----TNTNVVLGRQYPKLR 452

Search completed: March 10, 2003, 17:47:29
Job time : 15.2973 secs

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GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: March 10, 2003, 17:26:37 ; Search time 6.98108 Seconds
(without alignments)
730.773 Million cell updates/sec

Title: US-09-831-907A-33

Perfect score: 641
Sequence: 1 MDRVPCCLFLTGLNPLLS.....TRKHQKHGAPECFMKYCI 123

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112892 seqs, 41476328 residues

Total number of hits satisfying chosen parameters: 112892

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_40.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	64.1	100.0	123	1	UR2_MOUSE
2	34.1	84.4	123	1	UR2_RAT
3	286.5	44.7	124	1	UR2_HUMAN
4	115	17.9	125	1	UR2G_CYPCA
5	113	17.6	127	1	UR2A_RANRI
6	101.5	15.8	125	1	UR2A_CYPCA
7	81.5	12.7	523	1	E2BD_HUMAN
8	79	12.3	523	1	E2BD_RABIT
9	76	11.9	605	1	HYFR_ECOLI
10	75.5	11.8	670	1	NUPI_YEAST
11	73.5	11.5	1076	1	VE1_BPVI
12	73	11.4	319	1	ACCO_ACTCH
13	73	11.4	604	1	VE1_BPVI
14	72.5	11.3	404	1	EAD_EBV
15	72	11.2	83	1	UR2_PLAIF
16	71.5	11.2	243	1	SUMT_STNP7
17	71	11.1	760	1	OCT1_XENLA
18	70.5	11.0	80	1	P8_RAT
19	70.5	11.0	437	1	PAX6_OXYLA
20	70	10.9	1478	1	BCK1_YEAST
21	69.5	10.8	553	1	SYRA_TREPA
22	69.5	10.8	946	1	IP3L_HUMAN
23	69	10.8	743	1	OCT1_HUMAN
24	69	10.8	745	1	OCT1_PIG
25	68.5	10.7	357	1	NDF1_CHICK
26	68.5	10.7	422	1	PAX6_HUMAN
27	68.5	10.7	422	1	PAX6_MOUSE
28	68.5	10.7	437	1	PAX6_BRARE
29	68.5	10.7	451	1	GLUS_COTJA
30	68	10.6	383	1	GLUC_YEAST
31	68	10.6	2056	1	CBP1_CAFEL
32	67.5	10.5	364	1	F812_HUMAN
33	67	10.5	524	1	E2BD_MOUSE

34	67	10.5	739	1	OCT1_CHICK	P15143	gallus gall
35	66.5	10.4	292	1	CGD3_HUMAN	P30281	homo sapien
36	66.5	10.4	420	1	IEB8_HSV11	P04485	herpes simp
37	66	10.3	207	1	FM2_BORPE	P05788	borderella
38	66	10.3	391	1	P3_RAT	P10361	rattus norv
39	66	10.3	546	1	P2CG_HUMAN	O15355	homo sapien
40	66	10.3	646	1	UVRB_METTH	O25542	methanobact
41	65.5	10.2	416	1	PAX6_COTJA	P47238	bos taurus
42	65.5	10.2	979	1	PTPN_BOVIN	P56722	bos taurus
43	65.5	10.2	1033	1	V328_MYCPN	P75310	mycoplasma
44	65.5	10.2	1093	1	TWE1_HUMAN	P82094	homo sapien
45	65	10.1	339	1	HRDC_STRCO	P10184	streptomyce

ALIGNMENTS

RESULT 1	ID	UR2_MOUSE	STANDARD	PRT	123 AA
AC	090203				
DT	16-OCT-2001 (Rel. 40, Created)				
DT	16-OCT-2001 (Rel. 40, Last sequence update)				
DT	15-JUN-2002 (Rel. 41, Last annotation update)				
DE	Urotensin II precursor (U-II) (UII).				
GN	U22.				
OS	Mus musculus (Mouse).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
OX	NCBI_TaxID=10090;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RC	TISSUE=Spinal cord;				
RA	MEDLINE=99416011; PubMed=10486557;				
RT	Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lihmann I.;				
RT	Cloning, sequence analysis and tissue distribution of the mouse and				
RL	rat urotensin II precursors."				
CC	FEBS Lett. 457:28-32(1999).				
CC	- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).				
CC	- TISSUE SPECIFICITY: Secreted.				
CC	- SUBCELLULAR LOCATION: Secreted.				
CC	- MOTOMEDIONS OF THE BRAINSTEM AND SPINAL CORD.				
CC	- SIMILARITY: BELONGS TO THE UROSENSIN 2 FAMILY.				
CC	- This SWISS-PROT entry is copyright. It is produced through a collaboration				
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CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/				
CC	or send an email to license@isb-sib.ch).				
DR	EMBL; AF172175; AAD55767.1; -				
DR	MED; MG1:1346329; U22.				
DR	InterPro: IPR001483; Urotensin_II.				
DR	Pfam: PF02083; Urotensin_II; 1.				
DR	PROSITE: PS00984; UROSENSIN_II; 1.				
KW	Hormone; Cleavage on pair of basic residues; Signal.				
FT	SIGNAL	1	20	POTENTIAL.	
FT	PROPEP	21	104	POTENTIAL.	
FT	PEPTIDE	110	123	UROSENSIN_II.	
FT	DISULFID	117	122	BY SIMILARITY.	
SQ	SEQUENCE	123 AA: 13625 MW: F96486195137F74 CRC64:			
Query Match	100.0%; Score 641; DB 1; Length 123;				
Best Local Similarity	100.0%; Pred. No. 5.9e-55;				
Matches 123; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
QY	1 MDRVPCCLFLTGLNPLLSLPVTDGERTLPVLEEDALRALEELERALLQTLRQTM 60				
DB	1 MDRVPCCLFLTGLNPLLSLPVTDGERTLPVLEEDALRALEELERALLQTLRQTM 60				
QY	61 GTTAGESPEDAGSTETPTTPRGSMRAFAQGNSTVLSRLAATRKQKHGAPECFMK 120				

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Db      61 GTAGSGPAGSTETPTPRGSMKRAFGAGNSNTVLSRLATRRQKHOGAPECFWK 120
      |||
QY      121 YCI 123
      |||
Db      121 YCI 123

RESULT 2
UR2_RAT ID UR2_RAT STANDARD: PRT: 123 AA.
AC 090204:
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II precursor (U-II) (UII).
GN UTS2.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Spinal cord;
RX MEDLINE=99416011; PubMed=10486557;
RA Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lihmann I.,
RA Coulouarn Y., Jegou S., Tostivint H., Vaudry H., Lihmann I.,
RT "Cloning, sequence analysis and tissue distribution of the mouse and
RT urotensin II precursors."
RL FEBS Lett. 457:2832(1999).
CC -1- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: BRAIN-SPECIFIC.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL: AF172174; AAD55766.1; -
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II.1.
DR PROSITE: PS00984; UROTENSIN_II.1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 20 POTENTIAL.
FT PROPEP 21 104 UROTENSIN II.
FT PEPTIDE 110 123
FT DISULFID 117 122 BY SIMILARITY.
SQ SEQUENCE 123 AA; 13614 MW; EAFIAEEI24AFIEA CRC64;

Query Match 84.4%; Score 541; DB 1; Length 123;
Best Local Similarity 84.6%; Pred. No. 2.4e-45;
Matches 104; Conservative 7; Mismatches 12; Indels 0; Gaps 0;
QY 1 MDRVPCCLFLFGLNPLSLPVTDTGERTQLPYLEEDALRALEELERALLQLTRQTM 60
      |||
Db 1 MDRVPCCLFLFGLNPLSLPVTDTGERTQLPYLEEDALRALEELERALLQLTRQTV 60
QY 61 GTAGSGPAGSTETPTPRGSMKRAFGAGNSNTVLSRLATRRQKHOGAPECFWK 120
      |||
Db 61 GTAGSGPAGSTETPTPRGSLRKALIGQDSNTVLSRLATRRQKHOGAPECFWK 120
QY 121 YCI 123
      |||
Db 121 YCI 123

RESULT 3
UR2_HUMAN ID UR2_HUMAN STANDARD: PRT: 124 AA.

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AC 095399; Q9UKP7;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Urotensin II precursor (U-II) (UII).
GN UTS2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Spinal cord;
RX MEDLINE=99080095; PubMed=9861051;
RA Coulouarn Y., Lihmann I., Jegou S., Anouar Y., Tostivint H.,
RA Beauvillain J.C., Conlon J.M., Bern H.A., Vaudry H.,
RT "Cloning of the cDNA encoding the urotensin II precursor in frog and
RT human reveals intense expression of the urotensin II gene in
RT motoneurons of the spinal cord."
RL Proc. Natl. Acad. Sci. U.S.A. 95:15803-15808(1998).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=99427933; PubMed=10499587;
RA Ames R.S., Sarau H.M., Chambers J.K., Willeite R.N., Alyar N.V.,
RA Romanic A.M., Loudon C.S., Foley J.J., Sauremelch C.F., Coatsney R.W.,
RA Ao Z., Disa J., Holmes S.D., Stadel J.M., Martin J.D., Liu W.-S.,
RA Glover G.I., Wilson S., McNulty D.E., Ellis C.E., Elshourbagy N.A.,
RA Shabon U., Trill J.J., Hay D.W.P., Ohlstein E.H., Bergsma D.J.,
RA Douglas S.A.;
RT "Human urotensin-II is a potent vasoconstrictor and agonist for the
RT orphan receptor GPR14."
RL Nature 401:282-286(1999).
RN [3]
RP SEQUENCE FROM N.A.
RA Pearce A.;
RL Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: HIGHLY POTENT VASOCONSTRICTOR.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: BRAIN-SPECIFIC.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC -----
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CC -----
DR EMBL: AF104118; AAD13070.1; -
DR EMBL: AF140630; AAD5577.1; -
DR EMBL: Z98884; CAB63148.1; -
DR Genew; HGNC:12636; UTS2.
DR MIM: 604097; -
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II.1.
DR PROSITE: PS00984; UROTENSIN_II.1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 20 POTENTIAL.
FT PROPEP 21 110 UROTENSIN II.
FT PEPTIDE 114 124 BY SIMILARITY.
FT DISULFID 118 123 MYKLASCLLFGLFGLNPL -> METNVFHLMLCVTSARTH
FT CONFLICT 1 19 KTSLSLFGHNSYP (IN REF. 2).
FT CONFLICT 24 27 LDSR -> IHDLL (IN REF. 2).
SQ SEQUENCE 124 AA; 14295 MW; C7A5FC7FEED0D312 CRC64;

Query Match 44.7%; Score 286.5; DB 1; Length 124;
Best Local Similarity 49.6%; Pred. No. 7.1e-21;
Matches 62; Conservative 19; Mismatches 41; Indels 3; Gaps 2;
QY 1 MDRVPCCLFLFGLNPLSLPVTDTGERTQLPYLEEDALRALEELERALLQLTRQTM 60
      |||

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Db 1 MYKASCLLFLGFLNPLSLPLDSREISFQSLAPHEHARLPELEERSALDOLPEML 60
QY 61 CTEAGSGPAGSPTEPTPRGSKRK--AFAGONSNTVLRLARTKROKOHGAPECF 118
Db 61 GAERGDILRRADSTNTNFNRGNLRKFDPSGDPNILLSHLLARIMKPKKR-ETPDCF 119
QY 119 WKYCI 123
Db 120 WKYCV 124

RESULT 4
UR2G_CYPCA
ID UR2G_CYPCA STANDARD: PRT: 125 AA.
AC P06580;
DT 01-JAN-1988 (Rel. 06, Created)
DT 01-JAN-1988 (Rel. 06, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE UII gamma precursor [Contains: Urophysin gamma; Urotensin II-gamma].
OS Cyprinus carpio (Common carp).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Cyprinus.
OX NCBI_TaxID=7962;
RN [1]
RP SEQUENCE FROM N.A.
RA MEDLINE=86307061; PubMed=2427672;
RA Ohnaka S., Ishida I., Ichikawa T., Deguchi T.;
RT "Cloning and sequence analysis of cDNAs encoding precursors of
RT urotensin II-alpha and -gamma.";
RL J. Neurosci. 6:2730-2735(1986).
RN [2]
RP SEQUENCE OF 114-125.
RA Munekata E., Ohnaki T., Ichikawa T., McMaster D., Lederis K.;
RL (In) Rich D.H., Gross E. (eds.);
RL Proceedings of the 7th american peptide symposium, pp.69-72,
RL Pierce Chemical Co., Rockford IL (1981).
CC -1- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR. THE NONHORMONAL PORTION OF THIS
CC PRECURSOR MAY BE A UROTENSIN BINDING PROTEIN, UROPHYSIN.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC
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CC
CC EMBL: M14088; AAA49216.1;
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 21
FT CHAIN 22 106 UROPHYSIN GAMMA (POTENTIAL).
FT PEPTIDE 114 125 UROTENSIN II-GAMMA.
FT DISULFID 119 124
SQ SEQUENCE 125 AA: 13866 MW: 15870DCFC8CB67AD CRC64;

Query Match 17.9%; Score 115; DB 1; Length 125;
Best Local Similarity 27.9%; Pred. No. 0.00022;
Matches 36; Conservative 22; Mismatches 47; Indels 24; Gaps 4;

QY 7 CCLFLGLNPLSLPYDTGERTLQPLVEEDA-----LRLALEERMLLQTL 56
Db 9 CAVLLLS-CCHLLAHPTVDTADMTYSGPDSVEAGCVNPDFFSVDLNEHLQRAV----- 63
QY 57 RQMTGTEAGSPGAGSTETP--TPRGSMRKAFAGONSNTVLRLARTKROKOHGA 114
Db 64 -----AGTSPLESDENIKVPGQIPREALRELELLEKPYRLIPRGIMSGRRQFRKRG 116

QY 115 PECFWKCYI 123
Db 117 ADCFWKCYI 125

RESULT 5
UR2_RANRI
ID UR2_RANRI STANDARD: PRT: 127 AA.
AC P33715; Q9PSX6;
DT 01-FEB-1994 (Rel. 28, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Urotensin II precursor (U-II) (U11).
GN UTS2.
OS Rana ridibunda (Laughing frog) (Marsh frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranolidae; Ranidae; Rana.
OX NCBI_TaxID=8406;
RN [1]
RP SEQUENCE FROM N.A.
RA TISSUE=Brain;
RX MEDLINE=99080095; PubMed=9861051;
RA Coulouarn Y., Lihmann I., Jegou S., Anouar Y., Tostivint H.,
RA Beauvillain J.C., Conlon J.M., Bern H.A., Vaudry H.;
RT "Cloning of the cDNA encoding the urotensin II precursor in frog and
RT human reveals intense expression of the urotensin II gene in
RT motoneurons of the spinal cord.";
RL Proc. Natl. Acad. Sci. U.S.A. 95:15803-15808(1998).
RN [2]
RP SEQUENCE OF 115-127.
RC TISSUE=Brain;
RA MEDLINE=93075134; PubMed=1445302;
RA Conlon J.M., O'Harte F., Smith D.D., Tonon M.-C., Vaudry H.;
RT "Isolation and primary structure of urotensin II from the brain of a
RT tetrapod, the frog Rana ridibunda.";
RL Biochem. Biophys. Res. Commun. 188:578-583(1992).
CC -1- FUNCTION: INVOLVED IN SMOOTH MUSCLE STIMULATING AND ION
CC MOBILIZING ACTIVITIES. IT HAS A SUGGESTED ROLE AS A
CC CORTICOTROPIN-RELEASING FACTOR.
CC -1- TISSUE SPECIFICITY: CENTRAL NERVOUS SYSTEM. SPINAL CORD.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC
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CC
CC EMBL: AF104117; AAD13069.1;
DR PIR: P00445; P00445.
DR InterPro: IPR001483; Urotensin_II.
DR Pfam: PF02083; Urotensin_II; 1.
DR PROSITE: PS00984; UROTENSIN_II; 1.
KW Hormone; Cleavage on pair of basic residues; Signal.
FT SIGNAL 1 16
FT PROPEP 17 111
FT PEPTIDE 115 127 UROTENSIN II.
FT DISULFID 121 126
SQ SEQUENCE 127 AA: 14732 MW: FC26BC90E00C082E CRC64;

Query Match 17.6%; Score 113; DB 1; Length 127;
Best Local Similarity 30.8%; Pred. No. 0.00035;
Matches 40; Conservative 21; Mismatches 59; Indels 10; Gaps 5;

QY 1 MDRVPCCLFLGFLNPLSLPYDTGERTLQPLVEEDAALALEERMLLQTLRQ 58
Db 1 MSKLFECCLLAGSFCFSRSLPIVPSKGSIRLSKSLDGDGDKLSWDERR--LLRLPM 58
QY 59 TWGTEAGSGPAGSPTE-----TPRGSMRKAFAGONSNTVLRLARTKROKOH-GA 113

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Db 59 EVDKEA-ERDAEDIFSGEGLDAYNMDDKEELFKHPRISLRLQSKDRKQFKRAGN 117
Qy 114 APECFMKYCI 123
Db 118 LSECFMKYCV 127

RESULT 6
UR2A_CYPCA STANDARD: PRT: 125 AA.
ID UR2A_CYPCA
AC P04560;
DT 13-AUG-1987 (Rel. 05, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE U11 alpha precursor [Contains: Urophysin alpha; Urotensin II-alpha].
OS Cyprinus carpio (Common carp).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Cyprinus.
OX NCBI_TaxId=7962;

SEQUENCE FROM N.A.
RP MEDLINE=86307061; Pubmed=2427672;
RA Onisako S., Ishida I., Ichikawa T., Deguchi T.;
RT "Cloning and sequence analysis of cDNAs encoding precursors of
RT urotensin II-alpha and -gamma."
RL J. Neurosci. 6:2730-2735(1986).
RN [2]
RP SEQUENCE OF 114-125.
RA Munekata E., Ohnaki T., Ichikawa T., McMaster D., Lederis K.;
RA (in) Rich D.H., Gross E. (eds.);
RT Proceedings of the 7th american peptide symposium, pp.69-72,
RT Pierce Chemical Co., Rockford IL, (1981).
CC -1- FUNCTION: UROTENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
CC CORTICOTROPIN-RELEASING FACTOR. THE NONHORMONAL PORTION OF THIS
CC PRECURSOR MAY BE A UROTENSIN BINDING PROTEIN, UROPHYSIN.
CC -1- SIMILARITY: BELONGS TO THE UROTENSIN 2 FAMILY.
CC
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CC
CC EMBL: M14084; AAA49215.1;
CC DR InterPro: IPR001483; Urotensin-II.
CC DR Pfam: PF02083; Urotensin-II; 1.
CC DR PROSITE: PS00984; UROTENSIN-II; 1.
CC KW Hormone; Cleavage on pair of basic residues; Signal.
CC FT SIGNAL 1 21
CC FT CHAIN 22 106 UROPHYSIN ALPHA (POTENTIAL).
CC FT PEPTIDE 114 125 UROTENSIN II-ALPHA.
CC FT DISLFRD 119 124
CC SQ SEQUENCE 125 AA: 1EB6F86CA6B3A5AF CRC64:

Query Match 15.8%; Score 101.5; DB 1; Length 125;
Best Local Similarity 24.3%; Pred. No. 0.0044;
Matches 28; Conservative 23; Mismatches 47; Indels 17; Gaps 2;

Qy 18 LLSLPVDTGERTLQPLVEED-----ALRALEELERALLLOTLMQMTGEGESP 68
Db 19 LVNHPVTDADMTYSGPDSVEAGVSPDDFVSDLNDLORAAVVEYSPLLSREMIKVP 78

Qy 69 GEGAPSTETPTPGSMKRAFAAGNSNTVLSRLARTRKQKHKGAPCECFMKYCI 123
Db 79 GQ-----IPKEALRELLLEKPYRLIPPSGLMGSRQFRKRGAGADCFMKYCV 125

RESULT 7
EZBD_HUMAN

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ID EZBD_HUMAN STANDARD: PRT: 523 AA.
AC Q9U110; Q9U95; Q9UBG4; Q9U1Q9;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Translation initiation factor eIF-2B delta subunit (eIF-2B GDP-GTP
DE exchange factor).
GN EIF2B4 OR EIF2BD.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxId=9606;

(1)
RN SEQUENCE FROM N.A. (ISOFORM 1).
RP TISSUE=Adrenal gland;
RX MEDLINE=20402571; Pubmed=10931946;
RA Hu R.-M., Han Z.-G., Song H.-D., Peng Y.-D., Huang Q.-H., Ren S.-X.,
RA Gu Y.-J., Huang C.-H., Li Y.-B., Jiang C.-L., Fu G., Zhang Q.-H.,
RA Gu B.-W., Dai M., Mao Y.-F., Gao G.-F., Rong R., Ye M., Zhou J.,
RA Xu S.-H., Gu J., Shi J.-X., Jin W.-R., Zhang C.-K., Wu T.-H.,
RA Huang G.-Y., Chen Z., Chen M.-D., Chen J.-L.;
RT "Gene expression profiling in the human hypothalamus-pituitary-adrenal
RT axis and full-length cDNA cloning."
RL Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
RA Mughtman P.J., Bonthron D.T.;
RT "cDNA cloning, genomic organization and chromosomal localization of
RT the human eIF2B delta subunit."
RL Submitted (SEP-1998) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: CATALYZES THE EXCHANGE OF EUKARYOTIC INITIATION FACTOR
CC 2-BOUND GDP FOR GTP.
CC -1- SUBUNIT: COMPLEX OF FIVE DIFFERENT SUBUNITS; ALPHA, BETA, GAMMA,
CC DELTA AND Epsilon.
CC -1- ALTERNATIVE PRODUCTS: 2 isoforms: 1 (shown here) and 2; are
CC produced by alternative splicing.
CC -1- SIMILARITY: BELONGS TO THE EIF-2B ALPHA/BETA/DELTA SUBUNITS
CC FAMILY.
CC
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CC
CC EMBL: AF112207; AAF17195.1;
CC DR EMBL: AJ011305; CAB57260.1;
CC DR EMBL: AJ011306; CAB57261.1;
CC DR EMBL: AJ011307; CAB57304.1;
CC DR EMBL: AJ011308; CAB57304.1; JOINED.
CC DR EMBL: AJ011307; CAB57305.1;
CC DR EMBL: AJ011308; CAB57305.1; JOINED.
CC DR Genew; HGNC:3260; EIF2B4.
CC DR MIM: 606687;
CC DR InterPro: IPR000649; IF-2B.
CC DR Pfam: PF01008; IF-2B; 1.
CC KW Initiation factor; Protein biosynthesis; Alternative splicing.
CC FT VARSPPLIC 1 10
CC FT CONFLICT 71 71 MSDA (IN ISOFORM 2).
CC FT CONFLICT 197 197 MISSING (IN REF. 2).
CC FT CONFLICT 323 323 S -> T (IN REF. 2).
CC FT CONFLICT 481 481 L -> S (IN REF. 2).
CC SQ SEQUENCE 523 AA: F615EAFD816B9E48 CRC64:

Query Match 12.7%; Score 81.5; DB 1; Length 523;
Best Local Similarity 32.1%; Pred. No. 2;
Matches 26; Conservative 10; Mismatches 36; Indels 9; Gaps 2;

Qy 42 RALEELERALLQTLQTMGTGEGESPGAGPSTETPTPGSMKRAFAAGNSNTVLSRL 101

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Db 105 RAKGEAER-----ALKQARKGEGGPPPKASPTAGETPPSGVKRLPEYQVDDLRLRLV 159
 QY 102 ARTKO-----HKOGAPECF 118
 Db 160 KKEPQOVPTKRKYDGSKVSLF 180

RESULT 8

E2BD_RABIT STANDARD; PRT; 523 AA.
 ID E2BD_RABIT STANDARD; PRT; 523 AA.
 AC P4111;
 DT 01-FEB-1995 (Rel. 31, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-JUL-1999 (Rel. 38, Last annotation update)
 DE Translation initiation factor eIF-2B delta subunit (eIF-2B GDP-GTP exchange factor).
 GN E1F2B4 OR E1F2BD.
 OS Oryctolagus cuniculus (Rabbit).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
 OX NCBI_TaxID=9986;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=New Zealand white; TISSUE=Liver;
 RX MEDLINE=94153999; PubMed=8110836;
 RA Price N.T., Francia G., Hall L., Proud C.G.;
 RT "Guinea nucleotide exchange factor for eukaryotic initiation factor-2. Cloning of cDNA for the delta-subunit of rabbit translation initiation factor-2B."
 RT Biochim. Biophys. Acta 1217:207-210(1994).
 RL -1- FUNCTION: CATALYZES THE EXCHANGE OF EUKARYOTIC INITIATION FACTOR 2-BOUND GDP FOR GTP.
 CC -1- SUBUNIT: COMPLEX OF FIVE DIFFERENT SUBUNITS: ALPHA, BETA, GAMMA, DELTA AND EPSILON.
 CC -1- SIMILARITY: BELONGS TO THE EIF-2B ALPHA/BETA/DELTA SUBUNITS FAMILY.
 CC -----
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 CC -----
 DR EMBL: X75451; CA53204.1; ALT_INIT.
 DR InterPro: IPR000649; IF-2B.
 DR Pfam: PF01008; IF-2B; 1.
 KW Initiation factor; Protein biosynthesis
 SQ SEQUENCE 523 AA; 57120 MW; 057895B1E9D25558 CRC64;

Query Match 12.3%; Score 79; DB 1; Length 523;
 Best Local Similarity 31.7%; Pred. No. 3.5;
 Matches 26; Conservative 11; Mismatches 35; Indels 10; Gaps 3;

QY 42 RALELEEMALLQTLRQMTGEAGSPGECAPSTETPTPRSSMKRAFGQ-NSNTVLRL 100
 Db 104 RAKGEAER-----ALKQARKGEGGPPPKASPTAGETPPSGVKRLPEYQVDDLRLRLV 158
 QY 101 LARTRKO-----HKOGAPECF 118
 Db 159 VRKSEROOVPTKRKYDGSKVSLF 180

RESULT 9
 ID VE1_BPV1 STANDARD; PRT; 605 AA.
 AC P03116; O9MMH1;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-JUL-1998 (Rel. 36, Last annotation update)
 DE Replication protein E1.
 GN E1.

OS Bovine papillomavirus type 1.
 OC Viruses; dsDNA viruses, no RNA stage; Papillomaviridae;
 OC Papillomavirus.
 OX NCBI_TaxID=10559;
 RN [1]

RP SEQUENCE FROM N.A.
 RX MEDLINE=83012974; PubMed=6289124;
 RA Chen E.Y., Howley P.M., Levinson A.D., Seeburg P.H.;
 RT "The primary structure and genetic organization of the bovine papillomavirus type 1 genome."
 RL Nature 299:529-534(1982).
 RN [2]

RP REQUIREMENT FOR REPLICATION.
 RX MEDLINE=91122053; PubMed=1846806;
 RA Ustav M., Stenlung A.;
 RT "Transient replication of BPV-1 requires two viral polypeptides encoded by the E1 and E2 open reading frames."
 RL EMBO J. 10:449-457(1991).
 RN [3]

RP CHARACTERIZATION.
 RX MEDLINE=93281701; PubMed=8389467;
 RA Yang L., Mohr I., Fouts E., Lim D.A., Nohale M., Botchan M.;
 RT "The E1 protein of bovine papilloma virus 1 is an ATP-dependent DNA helicase."
 RL Proc. Natl. Acad. Sci. U.S.A. 90:5086-5090(1993).
 CC -1- FUNCTION: ATP-DEPENDENT DNA HELICASE REQUIRED FOR INITIATION OF VIRAL DNA REPLICATION. IT FORMS A COMPLEX WITH THE VIRAL E2 PROTEIN. THE E1-E2 COMPLEX BINDS TO THE REPLICATION ORIGIN WHICH CONTAINS BINDING SITES FOR BOTH PROTEINS.

CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -----
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 CC -----

DR EMBL: X02346; CAB46511.1;
 DR PIR: A03663; MWLEB.
 DR TRANSFAC: T00203;
 DR InterPro: IPR001177; Papillom_E1.
 DR Pfam: PF00519; E1; 1.
 DR Pfam: PF00524; E1_N; 1.
 KW Early protein; DNA replication; Helicase; ATP-binding; DNA-binding; Nuclear protein.
 KW NP_BIND 433
 FT SEQUENCE 605 AA; 68190 MW; C8400B7B8F6060B CRC64;

Query Match 11.9%; Score 76; DB 1; Length 605;
 Best Local Similarity 28.9%; Pred. No. 8;
 Matches 24; Conservative 16; Mismatches 33; Indels 10; Gaps 3;

QY 35 VLEEDALALELEMA-----LQTLRQMTGEAGSPGECAPSTETPTPR---GSMKRA 87
 Db 59 VFQGNHLEVPFALKEKAEQEOILNLRKRYLGSQSSGSEA---SETVYKRKRSKAKRL 115
 QY 88 FAGONSNTVLSRLARTKHKOK 110
 Db 116 FAENFANRVLTPLVOYQGEGRQ 138

RESULT 10
 ID HYFR_ECOLI STANDARD; PRT; 670 AA.
 AC P71229; P76567; P76976; P76977;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Hydrogenase-4 transcriptional activator.
 GN HYFR OR B2491.
 OS Escherichia coli.

```

CC Bacteria;Proteobacteria; gamma subdivision; Enterobacteriaceae;
CC Escherichia
CC NCBI_TaxID=562:
RN [1]
RN RP SEQUENCE FROM N.A.
RC STRAIN=K12:
RC Andrews S.C., McClay J., Ambler A., Quail M., Berks B.C., Guest J.R.;
RL Submitted (Oct-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RN RP SEQUENCE FROM N.A.
RC STRAIN=K12 / MG1655:
RC MEDLINE=97426617; PubMed=9278503:
RA Blatter F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,
RA Riley M., Coliado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,
RA Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,
RA Mau B., Siao Y.;
RL "The complete genome sequence of Escherichia coli K-12.";
RL Science 277:1453-1474(1997).
RN [3]
RN RP SEQUENCE FROM N.A.
RC STRAIN=K12:
RC MEDLINE=97349980; PubMed=9205837:
RA Yamamoto Y., Alba H., Baba T., Hayashi K., Inada T., Isono K.,
RA Itoh T., Kimura S., Kikagawa S., Makino K., Miki T., Mitsunashi N.,
RA Mizobuchi K., Mori H., Nakade S., Nakamura Y., Nashimoto H.,
RA Oshima T., Oyama S., Saito N., Sampei G., Satoh Y., Sivasubram S.,
RA Tagami H., Takahashi H., Takeda J., Takemoto K., Uehara K., Wada C.,
RA Yamagata S., Horuchi T.;
RL "Construction of a contiguous 874-kb sequence of the Escherichia coli
RT - K12 genome corresponding to 50.0-68.8 min on the linkage map and
RT analysis of its sequence features.";
RL DNA Res. 4:91-113(1997).
CC -1- FUNCTION: REQUIRED FOR INDUCTION OF EXPRESSION OF THE HYDROGENASE-
CC 4 STRUCTURAL GENES.
CC -1- SIMILARITY: THE CENTRAL REGION CONTAINS A SIGMA-54 FACTOR
CC INTERACTION ATP-BINDING DOMAIN.
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CC EMBL: M63654; AAB88573.1; -
CC EMBL: AE000335; AAC75544.1; ALT_INIT.
CC EMBL: D90877; BAA16379.1; -
CC EMBL: D90878; BAA16380.1; -
CC EcoGene: EG14219; hlyR.
CC InterPro: IPR003593; AAA_ATPase.
CC InterPro: IPR003018; GAF.
CC InterPro: IPR002197; HTH_Fls.
CC InterPro: IPR002078; Sig54_interact.
CC Pfam: PF00158; Sigma54_activat. 1.
CC Pfam: PF02954; HTH_8; 1.
CC SMART: SM00382; AAA; 1.
CC SMART: SM00065; GAF; 1.
CC TIGRfams: TIGR01199; HTH_Fls; 1.
CC PROSITE: PS00675; SIGMA54_INTERACT_1; 1.
CC PROSITE: PS00676; SIGMA54_INTERACT_2; 1.
CC PROSITE: PS00688; SIGMA54_INTERACT_3; 1.
CC PROSITE: PS50045; SIGMA54_INTERACT_4; 1.
CC Transcription regulation; Activator; DNA-binding; ATP-binding;
KW Complete proteome.
FT DOMAIN 347 576 SIGMA-54 FACTOR INTERACTION (POTENTIAL).
FT NP_BIND 375 382 ATP (POTENTIAL).
FT NP_BIND 438 447 ATP (POTENTIAL).
FT DNA_BIND 641 660 H-T-H MOTIF (BY SIMILARITY).
SQ SEQUENCE 670 AA; 75305 MW; 0EA738D2DBA96B6 CRC64;

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QY      33 LPVEED-ALRAL-----EELERALLDTLQNOTWCTEAGESGEGAGPTETPT 79
      ||| ||| ||| : ||| ||| ||| |||
Db      595 LPTIMEDALSRLSMAQLHPPTPENDEEERQRIYOLRETNGIVG----- 640
      ||| ||| ||| : ||| ||| ||| |||
QY      80 PRGSMRKAFAGONSNTVLSRL 100
      ||| : | ||| |||
Db      641 PRGATR--LGMKRTTLLSRM 659
      ||| : | ||| |||

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RESULT 11
NUPI_YEAST STANDARD: PRT: 1076 AA.
ID NUPI_YEAST AC P20676;
AC 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DDT 15-JUN-2002 (Rel. 41, Last annotation update)
DE Nucleoporin NUP1 (Nuclear pore protein NUP1).
GN NUPI OR YOR098C OR YOR3182C.
NC Saccharomyces cerevisiae (Baker's yeast).
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
OX Saccharomycetales; Saccharomycetaceae; Saccharomyces.
NN NCBI_TaxId=4932;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=90275616; Pubmed=2190694;
RA Davis L.I., Flink G.R.;
RL "The NUP1 gene encodes an essential component of the yeast nuclear
   pore complex.";
RN Cell 61:965-978(1990).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=97344368; PubMed=9200815;
RA Voss H., Benes V., Andrade M.A., Valencia A., Rechmann S., Teodorcu C.,
RA Schwager C., Paces V., Sander C., Ansoerge W.;
RL "DNA sequencing and analysis of 130 kb from yeast chromosome XV."
RT Yeast 13:655-672(1997).
CC -I- FUNCTION: ESSENTIAL COMPONENT OF NUCLEAR PORE COMPLEX.
CC NUCLEOPORINS MAY BE INVOLVED IN BOTH BINDING AND TRANSLLOCATION OF
CC THE PROTEIN DURING NOCTECTOPLASMIC TRANSPORT.
CC -I- SUBCELLULAR LOCATION: Nuclear pore complex.
CC -I- DOMAIN: APPEARS TO BE DIVIDED INTO THREE DOMAINS DEFINED BY
CC CENTRALLY LOCATED REpeating UNITS. FUNCTIONAL N-TERMINAL OF NUP1
CC OR OF NUP2 IS REQUIRED FOR GROWTH.
CC -I- DOMAIN: CONTAINS F-X-F-G REPEATS.
CC -I- SIMILARITY: TO THE CENTRAL REPETING UNITS OF NSP1 AND NUP2, AND
CC TO MAMMALIAN p62.
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-----
DR EMBL; M33632; AAA34822.1; -
DR EMBL; X94335; CAAG4020.1; -
DR EMBL; Z75006; CAA99295.1; -
DR PIR; A35622; A35622.
DR SGD; S0005624; NUP1.
KW Nuclear protein; Transport; Repeat.
FT DOMAIN 333 949
SQ SEQUENCE 1076 AA; I13581 MW; 4AC23567D2FB55CC CRC64;

Query Match          11.5%; Score 73.5; DB 1; Length 1076;
Best Local Similarity 23.7%; Pred. No. 28;
Matches      28; Conservative    18; Mismatches     49; Indels       23; Gaps         4.
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Db 92 TENTERPPLPIPLIOLRLREKQVRNMRRELGIQSTEPSITSSVILGSSKSDGEG 151
 QY 73 -----PSTETPRGSMKRAFGQNSN-----TVSRLARTRKQKHGAPECFW 119
 Db 152 STLCSTSPSTPKNSCTROLAKSGEDTNVGLPIFKSLKNSNRK-RPHSGSKGTW 208

RESULT 12
 ACCO_ACTCH STANDARD: PRT: 319 AA.
 ID ACCO_ACTCH STANDARD: PRT: 319 AA.
 AC P31237;
 DT 01-JUL-1993 (Rel. 26, Created)
 DT 01-JUL-1993 (Rel. 26, Last sequence update)
 DT 15-JUN-2002 (Rel. 41, Last annotation update)
 DE 1-aminocyclopropane-1-carboxylate oxidase (EC 1.1.1.1) (ACC oxidase)
 DE (Ethylene-forming enzyme) (EFE).
 GN ACO.
 OS Actinidia chinensis (Kiwifruit) (Yangtiao).
 CC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 CC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 CC Asteridae; Ericales; Actinidiaceae; Actinidia.
 CC NCBI_TaxID=3625;
 RX MEDLINE-94105308; PubMed-8278512;
 RA MacIarmid C.W., Gardner R.C.;
 RT "A cDNA sequence from kiwifruit homologous to 1-aminocyclopropane-1-carboxylic acid oxidase.";
 RL Plant Physiol. 101:691-692(1993).
 CC -1- CATALYTIC ACTIVITY: 1-AMINOCYCLOPROPANE-1-CARBOXYLATE + O2 =
 CC ETHYLENE + HCN + CO(2) + 2 H(2)O.
 CC -1- COFACTOR: IRON AND ASCORBATE.
 CC -1- PATHWAY: Ethylene biosynthesis; last step.
 CC -1- DEVELOPMENTAL STAGE: EXPRESSED DURING FRUIT RIPENING.
 CC -1- SIMILARITY: BELONGS TO THE IRON/ASCORBATE-DEPENDENT FAMILY OF
 CC OXIDOREDUCTASES.

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DR EMBL: M97961; AAA18566.1;
 DR InterPro: IPR005123; 2OG-Fer1_Oxy.
 DR Pfam: PF03171; 2OG-Fer1_Oxy. 1.
 KW Fruit ripening; Ethylene biosynthesis; Oxidoreductase; Iron;
 KW Vitamin C; Multigene family.
 SO SEQUENCE 319 AA; 36292 MW; 818FC9551FD98524 CRC64;

Query Match 11.4%; Score 73; DB 1; Length 319;
 Best Local Similarity 32.9%; Pred. No. 7.3;
 Matches 28; Conservative 13; Mismatches 24; Indels 20; Gaps 5;

Db 18 LLSLPVDTGRTIQLPVEDALRAL---EDLERNA--LLQTLRQTMGEAESP--- 68
 QY 92 LRLHPVSNISE---IPDLQDHRKAKMEFAEKLEKLABQLDLCCENVGLGKYLKAP 147
 Db 69 -GEAGPSTET-----PTPGSMRK 86
 Db 148 YGSGKPTGTFKVSNNYPCCPPRELK 172

RESULT 13
 ID VEL_BP2 STANDARD: PRT: 604 AA.
 AC P11298;
 DT 01-JUL-1989 (Rel. 11, Created)
 DT 01-JUL-1989 (Rel. 11, Last sequence update)
 DT 15-JUL-1998 (Rel. 36, Last annotation update)

DE Replication protein E1.
 GN E1.
 OS Bovine papillomavirus type 2.
 CC Viruses; dsDNA viruses, no RNA stage; Papillomaviridae;
 CC Papillomavirus.
 CC NCBI_TaxID=10560;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Groff D.E., Mitra R., Lancaster W.D.;
 RL Submitted (May-1988) to the EMBL/Genbank/DBJ databases.
 CC -1- FUNCTION: ATP-DEPENDENT DNA HELICASE REQUIRED FOR INITIATION OF
 CC VIRAL DNA REPLICATION. IT FORMS A COMPLEX WITH THE VIRAL E2
 CC PROTEIN. THE E1-E2 COMPLEX BINDS TO THE REPLICATION ORIGIN WHICH
 CC CONTAINS BINDING SITES FOR BOTH PROTEINS.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC CC
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DR EMBL: M20219; AAM68833.1;
 DR PIR: C31169; W1WLB2.
 DR InterPro: IPR001177; Papillom_E1.
 DR Pfam: PF00519; E1; 1.
 DR Pfam: PF00524; E1_N; 1.
 KW Early protein; DNA replication; Helicase; ATP-binding; DNA-binding;
 KW Nuclear protein.
 FT NP_BIND 432 439
 SO SEQUENCE 604 AA; 68077 MW; D2D7036ADE88A9DD CRC64;

Query Match 11.4%; Score 73; DB 1; Length 604;
 Best Local Similarity 31.5%; Pred. No. 16;
 Matches 23; Conservative 13; Mismatches 27; Indels 10; Gaps 3;

QY 35 VLEEDALALELERMA---LLQTLRQTMGEAESPGEAGPSTETTPR---GSMKA 87
 Db 59 VFQGHLEVPQALEKAEEDQLNKKRYLVSSGSEA---SETPAKROKAGAKRRL 115
 QY 88 FAGONSNTVLSRL 100
 Db 116 FSENEANRVLTPL 128

RESULT 14
 ID EAD_EBV STANDARD: PRT: 404 AA.
 AC P03191;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 01-DEC-1992 (Rel. 24, Last annotation update)
 DE Early antigen protein D (EAD-D).
 GN BMRF1.
 OS Epstein-Barr virus (strain B95-8) (Human herpesvirus 4).
 CC Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
 CC Gammaherpesvirinae; Lymphocryptovirus.
 CC NCBI_TaxID=10377;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE-84270667; PubMed-6087149;
 RA Baer R., Bankier A.T., Biggin M.D., Deininger P.L., Farrell P.J.,
 RA Gibson T.J., Hatfull G., Hudson G.S., Satchwell S.C., Seguin C.,
 RA Tuffnell P.S., Barrell B.G.;
 RT "DNA sequence and expression of the B95-8 Epstein-Barr virus genome.";
 RL Nature 310:207-211(1984).
 RN [2]
 RP SEQUENCE OF 123-404 FROM N.A.
 RA MEDLINE-87284177; PubMed-2441081;
 RA Pfitzner A.J., Strominger J.L., Speck S.H.;
 RT "Characterization of a cDNA clone corresponding to a transcript from

RT the Epstein-Barr virus BamHI M fragment: evidence for overlapping.
 RT MRNA5";
 RL J. Virol. 61:2943-2946(1987).
 RN [3]
 RP IDENTIFICATION OF PROTEIN.
 RX MEDLINE=86062917; PubMed=2999442;
 RA Cho M.-S., Milman G., Hayward S.D.;
 RT "A second Epstein-Barr virus early antigen gene in BamHI fragment M
 encodes a 48- to 50-kilodalton nuclear protein.";
 RL J. Virol. 56:860-866(1985).
 CC -1- FUNCTION: TRANS-ACTIVATOR FOR LYTIC CYCLE.
 CC -1- SUBCELLULAR LOCATION: Nuclear.
 CC -----
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 CC -----
 CC DR EMBL: V01555; CA24844.1; -;
 CC DR EMBL: M17322; AAA45877.1; -;
 DR PIR: A03754; Q08E13.
 DR PIR: S32998; S32998.
 KW Early protein; Transcription regulation; Activator; DNA-binding;
 KW Nuclear protein; Antigen.
 SQ SEQUENCE 404 AA; 43373 MW; 533B5DECC05F960 CRC64;
 Query Match 11.3%; Score 72.5; DB 1; Length 404;
 Best Local Similarity 24.1%; Pred. No. 11;
 Matches 33; Conservative 14; Mismatches 53; Indels 37; Gaps 4;
 QY 17 PLTSLPV-----TDGERTQLPV-----EEDALRALEELERMA--- 51
 DB 258 PAVSVPILEFYRSGIIVAVAGLITSAQDLPLDLVILFNHASEEAAASTASEPDKSPRV 317
 QY 52 -----LQTLRQTMGTAGEGSPSTETPTPRGSMKKAFAQONSNTVLSRLA--- 102
 DB 318 QPLGGLGLOORPRHTVSPSPPTPTWESPAPREPSPAPISHSNTALERPLAVQL 377
 QY 103 ---RTKKQKHQGAPE 116
 DB 378 ARKRTSSSEAROKOKHPK 394
 RESULT 15
 UR2_PLAFA STANDARD; PRT: 83 AA.
 ID UR2_PLAFA
 AC P21857;
 DT 01-MAY-1991 (rel. 18, Created)
 DT 01-MAY-1991 (rel. 18, Last sequence update)
 DT 16-OCT-2001 (rel. 40, Last annotation update)
 DE Urotensin II precursor (U-II) (UII) (Fragments).
 OS Platichtys flesus (European flounder).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Percomorpha; Pleuroneciformes;
 OC Pleuronecoidae; Pleuronectidae; Platichtys.
 OX NCBI_TaxID=8260;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Urophysis;
 RX MEDLINE=90306357; PubMed=2365069;
 RA Conlon J.M., Arnold-Reed D.E., Balmert R.J.;
 RT "Post-translational processing of prepro-urotensin II.";
 RL FEBS Lett. 266:37-40(1990).
 CC -1- FUNCTION: UROSENSIN IS FOUND IN THE TELEOST CAUDAL NEUROSECRETORY
 CC SYSTEM. IT HAS A SUGGESTED ROLE IN OSMOREGULATION AND AS A
 CC CORTICOTROPIN-RELEASING FACTOR. THE NONHORMONAL PORTION OF THIS
 CC PRECURSOR MAY BE A UROSENSIN BINDING PROTEIN. UROPHYSIN.
 CC -1- SIMILARITY: BELONGS TO THE UROSENSIN 2 FAMILY.
 DR PIR: S10706; S10706.

DR InterPro: IPR001483; Urotensin_II.
 DR PROSITE: PS00984; UROSENSIN_II; 1.
 KW Hormone; Cleavage on pair of basic residues.
 FT NON_TER 1 1
 FT PEPTIDE 1 >48 UROPHYSIN (POTENTIAL).
 FT NON_CONS 48 49
 FT NON_CONS 71 72
 FT PEPTIDE 72 83 UROSENSIN II.
 FT DISURFD 77 82
 FT SEQUENCE 83 AA; 9292 MW; 6DD057577EEDF703 CRC64;
 Query Match 11.2%; Score 72; DB 1; Length 83;
 Best Local Similarity 23.7%; Pred. No. 1.8;
 Matches 28; Conservative 11; Mismatches 27; Indels 52; Gaps 5;
 QY 22 PYTDGERTQLPV-LEEDALRALEEL-----RMALQTLRQTMGTAGE 66
 DB 2 PITSAEMPYPGPASLEERGVSDDLISLSEONYPPOGAGLRYATLVLELEKO----- 55
 QY 67 SPGEAGPSTETPTPR-GSMKKAFAQONSNTVLSRLARTRKQKHQGAAPCEFMKYCI 123
 DB 56 -----SLNPFSSRVFGIRKQFAG-----TTECFMKYCV 83

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 Job time : 8.98108 secs